



African Monsoon Multidisciplinary Analyses
3rd International Conference
Ouagadougou, Burkina Faso, July 20-24 2009



Programme

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3rd AMMA International Conference, Schedule overview

July 19-24 2009

	Sunday 19	Monday 20	Tuesday 21	Wednesday 22	Thursday 23	Friday 24	
08:30	AMMA Database Training Course (whole day) Univ. Ouagadougou Specific registration mandatory L. Fleury	Registration	Plenary session 3	Plenary session 5	Plenary session 7	Parallel sessions 9	08:30
		Opening session Introduction and Institutional talks	West African Monsoon Processes J. Polcher, C. Flamant	Weather and Climate Variability and Predictability J.P. Lafore, A. Tompkins	Society-Environment-Climate Interactions S. Traore, L. Genesio	9A MCSs and Atm. boundary layer E. Williams, F. Guichard 9B Aerosols-Dust-Chemistry-3 (Dust) A. Konare, B. Marticorena 9C Climate and human impacts on water resources and management strategies H. Karambiri, A. Ali	
10:00		// Press conference		// Press conference			
10:00	Registration and Poster installation	Break	Break	Break	Break	Break	10:30
10:30		Plenary session 1	3 cont.	5 cont.	7 cont.	9A cont. E. Williams, F. Guichard 9C cont. S. Becerra, A. Niang-Fall 9D Regional climate models A. Diongue-Niang, K. Cook	11:00
12:30		Solicited talks Climate Change, African Monsoon System, Predictability, and Society-Environment-Climate Interactions J.L. Redelsperger					
		Lunch	Lunch	Lunch	Lunch	Lunch	12:30
14:00	Registration and Poster installation	Parallel sessions 2	Parallel sessions 4	Parallel sessions 6	Parallel sessions 8	Plenary session	
		2A Monsoon system and Atmospheric boundary layer S. Janicot, J.P. Lafore 2B Hydrological processes T. Lebel, C. Peugeot 2C Agricultural, livestock and natural vegetation vulnerab. to climate variability and change: perceptions and adaptations C. Mbow, O. Mertz	4A Climate Variability and Predictability P. Lamb, P. Ruti 4B African easterly waves and tropical cyclones C. D. Thorncroft, N. Hall 4C Agricultural, livestock and natural vegetation vulnerab. to climate variability and change: perceptions and adaptations B. Barbier, L. Genesio 4D Climate impacts on health S. Danuor, N. Martiny	6A Intraseasonal variability C. Zhang, S. Janicot 6B Aerosols-Dust-Chemistry-1 (Chemistry) C. E. Reeves, C. Mari 6C Water cycle A. Agusti-Panareda, M. Gosset 6D Climate impacts on agriculture, livestock and natural vegetation C. Baron, L. Somé	8A Ocean processes G. Caniaux, P. Brandt 8B Land processes C. M. Taylor, E. Mougouin 8C Socio-economic vulnerability and adaptations J. Nielsen, P.D. Fall	Recommendations and Round table	14:30
15:15		Poster introduction 2A, 2B, 2C	Poster introduction 4A, 4B-9A, 6D, 4D	Poster introduction 6A-9D, 6B-9B, 6C, 9C	Poster introduction 8A, 8B, 8C		
15:30		Poster session	Poster session	Poster session	Poster session		
16:30		Break	Break	Break	// IGB Meeting on invitation, O. Roussot Break		16:30
17:00		Poster session	Poster session	Poster session	Poster session	Closing session	17:00
17:30		2A cont. 2B cont. 2C cont. P. Hiernaux, M. Bacci	4A cont. 4B cont. 4C Climate impacts on agriculture, livestock and natural vegetation I. Diedhiou, A. Ka 4D cont. J.A. Ndione, A. Morse	6A cont. 6B Aerosols-Dust-Chemistry-2 (Aerosols) 6C cont. 6D cont. A. Konare, P. Formenti S. Traore, B. Muller	8A cont. 8B cont. 8C cont. P. Quirion, A.H. Dia		17:30
18:30	ISSC Meeting on invitation J.L. Redelsperger		Evening meetings (1) Café des Sciences	Evening meetings (2)	Evening meetings (3)		18:30
19:30		Get together cocktail					
20:00		CSAM Meeting on invitation, C. Kane		AMMA on the screen	Gala dinner		20:00

- (1) Observing System, C. Thorncroft // A model intercomp. of the June 2006 dust event, F. Solmon
- (2) Water cycle and Surf. Atm. Interactions, O. Bock // AEWACS discussion, M.C. Dufresne (to be confirmed)
- (3) Sustainability of the radiosounding & GPS network, on invitation, J.P. Lafore

Detailed conference schedule

Registration: Sunday, July 19 and Monday, July 20, morning

Monday, July 20

Plenary session 1

08.30-10.00		Conference opening
10.00-10.30		Break
10.30-12.30		Solicited talks - Climate Change, African Monsoon System, Predictability, and Society-Environment-Climate Interactions - Chair: J.L. Redelsperger
10:30	Pl.1.1	K.H. Cook Climate change in West Africa: current projections and the potential for abrupt change
11:00	Pl.1.2	J.P. Lafore Towards a conceptual model of the African monsoon
11:30	Pl.1.3	C. Mbow, O. Mertz Human-environment interactions: a framework for local adaptation to climate change
12:00	Pl.1.4	A. Tompkins, L. Feudale, A. Agusti-Panareda, F. Molteni Towards seamless forecasting in Africa
12.30-14.00		Lunch

Parallel sessions 2

2A: Monsoon system and Atmospheric boundary layer

Chair: S. Janicot, Secretary: J.P. Lafore

14:00	Pr.2A.1	K.H. Cook West African monsoon onset and demise: connecting theory and observations to aid prediction
14:15	Pr.2A.2	G. Caniaux, H. Giordani, J.L. Redelsperger, M. Wade, F. Guichard The Santa Helena anticyclone, the Atlantic Cold Tongue and the African monsoon
14:30	Pr.2A.3	P. Peyrillé, A. Boone, J.P. Lafore Analysis of the land surface-atmosphere coupling in West Africa using a two-dimensional model
14:45	Pr.2A.4	C. Zhang, S. Hagos Double overturning meridional circulations in West Africa: their causes and roles in monsoon development
15:00	Pr.2A.5	S. Hagos, C. Zhang Land-sea contrast in latent heating profiles and implications for African monsoon dynamics
15:15		Poster introduction
15.30-17.30		Poster session
17.30-18.30		Parallel sessions continued
17:30	Pr.2A.6	C.D. Thorncroft, H. Nguyen, C. Zhang, P. Peyrillé Annual cycle of water vapour transport in the West African monsoon region

- 17:45 Pr.2A.7** H. Nguyen, C.D. Thorncroft, C. Zhang
Annual cycle of the West African rainfall
- 18:00 Pr.2A.8** C. Grams, S. Jones, J. Marsham, D. Parker, J. Haywood, V. Heuveline
The Atlantic inflow to the Saharan heat low: observations and modelling
- 18:15 Pr.2A.9** A. Gounou, F. Couvreux, F. Guichard, A. Boone, M. Kohler
Observation and modelling of continental diurnal cycles in West Africa
- 18:30 Discussion

Posters

- Po.2A.1** C.M. Taylor, S. Janicot, G. Caniaux, A. Boone, N. Philippon
Analysis of surface-atmosphere coupling in the West African monsoon over the Extended Observation Period
- Po.2A.2** A.K. Traore, F. Hourdin, A.T. Gaye
The role of continental surface processes in the West African monsoon: intraseasonal and interdecadal variability
- Po.2A.3** A. Agusti-Panareda, G. Balsamo, A. Beljaars
The impact of improved soil moisture on the ECMWF precipitation forecast over West Africa
- Po.2A.4** M. Kohler, N. Kalthoff, C. Kottmeier
The influence of soil moisture on the energy balance, boundary layer and convective instability during the pre-onset and mature phase of the African monsoon
- Po.2A.5** C. Bain, D.J. Parker, C.M. Taylor
The impact of large-scale soil moisture patterns on the West African monsoon
- Po.2A.6** S. Bastin, C.M. Taylor, A. Boone, D.J. Parker
Analysis of the impact of soil moisture patterns on atmospheric dynamics on 1 August 2006 AMMA case based on high resolution numerical simulations
- Po.2A.7** T. Pellarin, J.M. Cohard, J.P. Laurent, T. Tran, M. Tomasini
Surface soil moisture influence in initiation and maintenance of the West-African monsoon system
- Po.2A.8** D. Ramier, F. Guichard, B. Cappelaere, L. Kergoat, S. Galle, F. Timouk, N. Boulain, J.M. Cohard, M. Grippa, C.M. Taylor
Impact of the monsoon on the downwelling surface radiative surface fluxes across West Africa: an evaluation of ECMWF-IFS and satellite estimates with ground measurements
- Po.2A.9** J. Marsham, G. Devine, Q. Huang, C. Grams, L. Garcia-Carreras, D.J. Parker
Observed and modelled impacts of surface flux anomalies and orography on the growth of the Saharan convective and residual boundary layers
- Po.2A.10** F. Lohou, F. Said, M. Lothon, P. Durand, D. Serça
Impact of the boundary-layer processes on surface turbulence characteristics in the frame of the West African monsoon
- Po.2A.11** G. Devine, D.J. Parker, C. Flamant, J. Haywood, R. Burton
Structure of the Harmattan over West Africa: nocturnal intensification and frontogenesis
- Po.2A.12** J.E. Cuesta, C. Flamant, J. Marsham, ~~R. Burton~~
Seasonal evolution of dust, clouds and the Saharan atmospheric boundary layer over West Africa, as described by three years of CALIPSO observations

- Po.2A.13** M. Leduc-Leballeur, I. Eymard, G. De Coëtlogon
Characterization of the low atmosphere humidity in the Gulf of Guinea in May-July 2006
- Po.2A.14** A. Perriault, O. Mamadou, S. Galle, J.M. Cohard, B. Kounouhewa
Eddy correlation data from AMMA/catch Benin sites: daily and seasonal analysis of quality controlled data
- Po.2A.15** A. Nzeukou, D. Vondou, F. Nkamkam
Diurnal cycle patterns of cloudiness in summer over Central Africa
- Po.2A.16** K.S. Edjame
Perception and comprehension of monsoon in West Africa

S2B: Hydrological processes

Chair: T. Lebel, Secretary: C. Peugeot

- 14:00 Pr.2B.1** A. Afouda, E. Alamou
A Noether-type conservation law for hydrological modelling: assessment of applicability for climate change impact analysis
- 14:15 Pr.2B.2** S. Sambou, C.M. Talla, M.N.E. Nicaise, T. Seni, Y. Dieme
Is climate change benefit to runoff? The case of Senegal River basin upstream Bakel, Gambian River upstream Kedougou, the Diaguiry tributary au Pont routier
- 14:30 Pr.2B.3** E. Le Breton, I. Mamadou, C. Cosandey, I. Bouzou Moussa, E. Gautier, L. Descroix
Sedimentary transfers evolution and hydrological modifications in small sahelian watersheds
- 14:45 Pr.2B.4** I. Mamadou, E. Le Breton, D. Brunstein, E. Gautier, L. Descroix, I. Bouzou Moussa, M.O. Faran
Koris neo-exorheism and silting up processes in the Niger River valley near Niamey (Niger)
- 15:00 Pr.2B.5** M. Faye, S. Sambou, G. NDiaye, T. Seni
Estimation of flow in ungauged basins using EPA SWMM5: case of Dakar and Thiès region basins
- 15:15 Poster introduction
- 15:30-17:30 Poster session
- 17:30-18:30 Parallel sessions continued
- 17:30 Pr.2B.6** L. Seguis, B. Kamagate, V. Montpellier, J.L. Seidel, A. Akpo, C. Peugeot, S. Tillery
Streamflow components at the flood scale on a Sudanian catchment. Comparison with hydrologic model simulations
- 17:45 Pr.2B.7** B. Kamagate, A. Mariko, H. Bokar, A. Dao, L. Seguis
Hydrogeochemical differentiation between alterites phreatic aquifer and bedrock groundwater in the watershed of Kolondieba (southern Mali)
- 18:00 Pr.2B.8** A. Afouda, E. Alamou
Implementation of two hydrological models on Oueme River basin (Benin): Least Action Principle Based Hydrological Model and GR4J
- 18:15 Pr.2B.9** F. Cazenave, M. Gosset
High resolution rainfield at the mesoscale: review of results and radar based methods in Djougou and Niamey areas
- 18:30 Discussion

Posters

- Po.2B.1** H. Karambiri, H. Yacouba, M.M. Adamou, B. Barbier, O. Sani
Applying a rainfall-runoff lumped model (GR4J) to simulate daily discharges on the Nakambé basin (Burkina Faso)
- Po.2B.2** M.N.E. Nicaise, S. Sambou, S. Tamba
Calibration and validation of the empirical hydrological models GR4J and GR2M on the Gambia basin River upstream to the station of Kedougou: long-term evolution of water resources
- Po.2B.3** A.S. Agbidinoukoun, E. Vissin
Approaches modeling on Oueme basin at Beterou using the GR4J model
- Po.2B.4** A.E. Lawin, E. Vissin, L. Sintodji, A. Gohoungossou, J.B. Vodounou, A. Zannou, A. Akognongbe, J. Vodounnon, M. Ahouansou, D. Abdoulaye, M. Assaba
OUEME-2025 project's contribution to the hydrological modelling of upper Ouémé watershed: study of climate variability and surface conditions dynamic impact's on runoff and ecosystems
- Po.2B.5** M. Wubda, M Descloitres, L. Seguis, A. Legchenko
Hydrogeophysical surveys for local scale watershed hydrologie in north Benin
- Po.2B.6** S.H. Totin Vodounon, M. Boukari, A. Alassane, M. Boko
Aquifer system sensitivity to the West African Monsoon variability in the coastal sedimentary basin of Benin (West Africa)
- Po.2B.7** S. Galle, L. Seguis, O. Mamadou, C. Peugeot, I. Zin, M. Gosset, J. Seghieri
Water redistribution along hillslope in Benin. Influence of the vegetation cover
- Po.2B.8** L. Seguis, J. Pfeffer, S. Galle, M. Descloitres, J.P. Laurent, B. Luck, P. Genthon, J. Hinderer
One year of water storage variations monitoring by gravimetry in Benin. Comparison to classical method of water storage estimations
- Po.2B.9** C. Peugeot, M. Gosset, A. Zannou, F. Guichard, J.L. Redelsperger
One-way coupling of meso-scale hydrologic with atmospheric models: lessons from the 28-29 Aug 05 case study
- Po.2B.10** L.A. Mounirou, H. Yacouba, H. Karambiri, B. Barbier, G. Mahe, J.E. Paturel, M.L.W. Somda
Test operation for hydrological modelling of the Tougou watershed using the KINEROS2 model
- Po.2B.11** G. Favreau, M. Boucher, B. Luck, J. Pfeffer, Y. Nazoumou, P. Genthon, J. Hinderer
First results of the GHYRAF (Gravity and Hydrology in Africa) experiment: SW Niger
- Po.2B.12** L. Descroix, J.P. Laurent, S. Boubkraoui, B. Cappelaere
An increase in deep infiltration in the Sahel?
- Po.2B.13** B. Sanou, P. Hiernaux, L. Kergoat, E. Mougin
Spatial redistribution of rainfall water within endorheic land units in Central Gourma (Mali): a remote sensing approach
- Po.2B.14** M. Boucher, G. Favreau, S. Massuel, J.M. Vouillamoz, M. Descloitres, B. Cappelaere, Y. Nazoumou, A. Legchenko
Subsurface geophysics for constraining surface water - groundwater modeling in SW Niger
- Po.2B.15** I. Zin, C. Peugeot, L. Seguis, S. Galle, M. Gosset, M. Le Lay, S. Tillery, A. Zannou, A. Boone, P. De Rosnay, and the ALMIP group
Water balance sensitivity to the evapotranspiration term: issues from hydrological modelling on the sudanian site of AMMA (Benin)

S2C: Agricultural, livestock and natural vegetation vulnerability to climate variability and change: perceptions and adaptations

Chair: C. Mbow, Secretary: O. Mertz

- 14:00 Pr.2C.1** S.K. Ekoue, A. Defly, F.K. Djeguema, A.L. Badji-Toulassi, K. Adomefa
Effects of introduction practice of fodders cultures in the agricultural exploitations at South - Togo as strategies of adaptation to the climatic change
- 14:15 Pr.2C.2** B. Barbier, O. Mertz, M. Zorom, T.P. Zoungrana, *et al.*
Adaptation Strategies of Sahelian farmers to climate variability: analysis of the diversity
- 14:30 Pr.2C.3** P.V. Vissoh, E. Agbossou, S.D. Vodouhe, R. Dimon, D. Agossou
Farmers' vulnerability and adaptive strategies to cope with climate change in Benin
- 14:45 Pr.2C.4** D. Nkwanga
Farm-level innovations that can assist grassroots communities in Africa cope with climate change
- 15:00 Pr.2C.5** B. Barbier, M. Kouakou, M. Zorom, H. Yacouba, H. Karambiri, E. Da Dapola
Irrigation and climate variability in the Sahel? Comparison between rainfed and irrigated farms
- 15:15 Poster introduction
- 15.30-17.30 Poster session

Chair: P. Hiernaux, Secretary: M. Bacci

- 17.30-18.30 Parallel sessions continued
- 17:30 Pr.2C.6** H. Guibert, E. Agbossou, D. Agossou, R. Dimon
Perceptions of climate change and its impacts by farmers in Benin (West-Africa)
- 17:45 Pr.2C.7** C. Bring
Indicators of the perception of climate change on the Ngaoundéré plateau (Cameroon) pastoral population
- 18:00 Pr.2C.8** A. Ka, W.M. Maman, K. Rasmussen, D. Coulibaly
Livestock in the Sahel and the climate change
- 18:15 Pr.2C.9** P. Hiernaux, E. Mougouin, V. Trichon, V. Le Dantec
Sahel vegetation vulnerability to droughts, grazing and clearing for cropping: lessons from long term monitoring in Gourma (Mali) and Fakara (Niger)
- 18:30 Discussion

Posters

- Po.2C.1** D. Diallo, E. DA Dapola, A. Ka, *et al.*
Climate changes and rainfed agriculture evolution in West Africa soudano-sahelian zone
- Po.2C.2** S. Ani, K. Bolor
Best management of rice haversting residue for an ecological agriculture in irrigated condition in Togo
- Po.2C.3** G. Wokou, M. Boko, M. Da Matha Sant'anna
Dynamics of climatic risks and rural strategies of adaptation in the basin of Zou in the South of the Benin
- Po.2C.4** T. Sane, A. Ndiaye
Climatic variability, adaptation and poverty in the Serere country

- Po.2C.5** A. Bilgo, V. Hien, D. Massé, L. Somé
Impacts des adaptations des sociétés aux changements climatiques sur les services écosystémiques et la vulnérabilité des sols au Burkina Faso
- Po.2C.6** C. Mbow, A. Diouf, A. Ka
Adaptation to climate change with ecosystem services: the role of forest resources in the rural Sahel
- Po.2C.7** F. Afouda, I. Yabi
Rainy constraints and farmer responses in Tchi surface in benin
- Po.2C.8** I.I. Yattara, S.F. Sissoko, R. Mhamdi, T. Krassova-Wade, A.Z. Mayaki, M. Neyra
Optimization of cowpea cropping system in the context of adaptation strategy to climate change in West Africa
- Po.2C.9** S.K. Adessou, L. Faye, S. Dembele, Y.K. Bene, L. Alagbe
Agro forestry, a viable option in the adaptation approach towards climate change in West Africa
- Po.2C.10** P. Hiernaux, E. Mougouin, M. Grippa, L. Kergoat, V. Demarez
The research project 'Livestock-Climate-Society' (ECLiS), adding value to some of the scientific outputs of the African Monsoon Multidisciplinary Analysis (AMMA)
- Po.2C.11** E. Vall, N. Andrieu, F. Lamkoande
Analysis of farmers' adaptation strategies to climate change in Sudanese-Sahelian zone of western Africa
- Po.2C.12** J.I. Ezeji
Diffusing adaptation to sustain food security in West Africa
- Po.2C.13** O.A. Nubi, E.A. Ajao, A.T. Nubi
Climate change: a threat to sustainable development in Africa
- Po.2C.14** A. Di Vecchia, L. Genesio, M. Bacci, P. Vignaroli, V. Tarchiani, M. NDiaye, K. Lawan, B. Diarra
Early warning for food security: evolution trends and opportunities
- Po.2C.15** O.J. Matthew, I.B. Obioh
Assessment of regional climate change, potential vulnerabilities and adaptation options in different West African eco-climate zones using RegCM3 model
- Po.2C.16** C. Akinbile
Best practices for combating land degradation and climate change mitigation strategies in Nigeria

Tuesday, July 21

Plenary session 3 - West African Monsoon Processes

Chair: J. Polcher, Secretary: C. Flamant

- 08:30 PI.3.1** L. Descroix, K. Souley Yero, O. Amogu, M. Esteves, S. Boubkraoui, J.L. Rajot, I. Mamadou, E. Le Breton
Land cover changes and runoff evolution
- 08:45 PI.3.2** E. Mougin, M. Grippa, P. Hiernaux, V. Demarez, L. Kergoat, V. Le Dantec, C. Gruhier, P. De Rosnay, V. Trichon, N. Soumaguel, L. Diarra, M. Koite
Vegetation conditions during the AMMA Long Observing Period
- 09:00 PI.3.3** A. Boone, P. De Rosnay, G. Balsamo, A. Beljaars, F. Chopin, C. Delire, B. Decharme, A. Ducharne, S. Gascoin, F. Guichard, Y. Gusev, P. Harris, L. Jarlan, L. Kergoat, E. Mougin, O. Nasonova, A. Norgaard, T. Orgeval, C. Ottle, I. Pocard-Leclercq, J. Polcher, I. Sandholt, S. Saux-Picart, C.M. Taylor, Y. Xue
The AMMA land surface model inter-comparison project: Summary of Phase 1 and Perspectives for Phase 2
- 09:15 PI.3.4** F. Guichard, L. Kergoat, A. Gounou, B. Cappelaere, S. Galle, E. Mougin, D. Ramier, C. Lloyd
Couplings of surface thermodynamics and radiative fluxes across West Africa: an exploration in time and space from ground data
- 09:30 PI.3.5** N. Kalthoff, J. Schwendike, M. Kohler
The impact of MCSs on the surface and boundary layer structure: results from the special observing periods SOP 1 and SOP 2
- 09:45 PI.3.6** A. Deme, R. Roca
Dry intrusions in the West African Monsoon mid-troposphere during the AMMA experiment
- 10:00 PI.3.7** C. Risi, S. Bony, F. Vimeux, L. Descroix
Water isotopes of the Sahelian rain: what information on cloud convection and land-atmosphere interactions?
- 10:15 PI.3.8** D. Bouniol, J. Delanoe, C. Durouré, A. Protat, V. Giraud, G. Penide
Microphysical characterisation of west African MCS anvils
- 10.30-11.00 Break
- 11:00 PI.3.9** C. Zhang, J. Huang, J. Prospero
Effect of African aerosol on precipitation along the Guinea Coast
- 11:15 PI.3.10** C. Delon, C. Galy-Lacaux, A. Boone, C. Liousse, D. Serça, M. Adon, B. Diop, A. Akpo, F. Lavenu, E. Mougin, F. Timouk
Atmospheric nitrogen budget in West African dry savannas
- 11:30 PI.3.11** C. Bouet, G. Cautenet, S. Cautenet, B. Marticorena, G. Bergametti, B. Chatenet, J.L. Rajot, K. Desboeufs, P. Formenti, A. Boone
Are tropical mesoscale convective systems sources or sinks of desert dust in the Sahel? First insight from an AMMA case study
- 11:45 PI.3.12** A. Mariko, H. Bokar, A. Konaré, F. Bamba, D. Diallo, B. Kamagate
Flow simulation and climate change impact on shallow groundwater recharge in Kolondieba catchment Basin, Sudanese climate zone in Mali
- 12:00 PI.3.13** C. Peugeot, I. Zin, M. Gosset, S. Galle, J.M. Cohard, A. Boone, P. De Rosnay, O. Mamadou, L. Seguis, M. Le Lay, A. Zannou
Water cycle as simulated by a hydrologic model: evaluation of simulated evapotranspiration over the Oueme watershed (Benin)

- 12:15** **PI.3.14** M. Gerbaux, T. Lebel, T. Vischel, M. Gosset, F. Cazenave
 Elaboration of high resolution rain fields over the Benin and Niger AMMA-CATCH meso-sites by using Lagrangian kriging
- 12.30-14.00 Lunch

Parallel sessions 4

S4A: Climate Variability and Predictability

Chair: P. Lamb, Secretary: P. Ruti

- 14:00** **Pr.4A.1** B. Rodriguez De Fonseca, E. Mohino, T. Losada, S. Janicot, S. Gervois
 Understanding a global tropical mode influencing the WAM variability
- 14:15** **Pr.4A.2** N. Philippon, F. Doblas-Reyes, P.M. Ruti
 Seasonal reproducibility and predictability of the West African Monsoon in coupled GCMs
- 14:30** **Pr.4A.3** P.M. Ruti, M.B. Barmou Batoure, A. Diedhiou, A. Dell'aquila
 Seasonal error in the seasonal forecast over West Africa from European multi-model ensemble system
- 14:45** **Pr.4A.4** C.M. Patricola, K.H. Cook
 West African climate at the end of the 21st Century: An integrated application of regional and global climate models
- 15:00** **Pr.4A.5** S. Bielli, H. Douville, F. Chauvin
 Influence of the West African Monsoon on North Atlantic and European climate
- 15:15 Poster introduction
- 15.30-17.30 Poster session
- 17.30-18.30 Parallel sessions continued
- 17:30** **Pr.4A.6** A.E. Lawin, A. Afouda, T Lebel
 Rainfall trend analysis in five climatic regions in Benin
- 17:45** **Pr.4A.7** E. Amoussou, V.H. Totin, P. Camberlin, M. Boko, J. Perard
 Instability of space-time rainfall regimes in the payment of basin Mono-Couffo and its impact on the flow of 1961 to 2000
- 18:00** **Pr.4A.8** Z. Yepdo Djomou, D. MonKam, A. Lenouo
 Detecting change of spatio-temporal variability of the climatic zones over West Africa during the last century
- 18:15** **Pr.4A.9** A.E. Kouadio, Y. Kouadio, P. Zahiri, A. Aman, P. Assamoi, B. Bourlès
 Influence of the coastal and equatorial upwellings of the Gulf of Guinea on the precipitations along its coastline during the boreal summer
- 18:30 Discussion

Posters

- Po.4A.1** P.M. Ruti, C. Caminade, F.J. Doblas-Reyes
 The teleconnection mechanisms between Pacific and West Africa in Stream2 ENSEMBLES seasonal forecasts
- Po.4A.2** A. Tompkins, L. Feudale
 Influence of SST in the West Africa monsoon seasonal precipitation forecast of ECMWF System 3

- Po.4A.3** T. Losada, B. Rodriguez De Fonseca, S. Janicot, S. Gervois, F. Chauvin, P.M. Ruti
Impact of the Equatorial Mode on the tropical climate and the West African monsoon
- Po.4A.4** B. Rodriguez De Fonseca, I. Polo, J. Garcia-Serrano, T. Losada, E. Mohino, C.R. Mechoso, F. Kucharski
Is the Atlantic El Nino dynamically affected the Pacific ENSO in recent decades?
- Po.4A.5** B. Fontaine, J. Garcia-Serrano, P. Roucou, B. Rodriguez De Fonseca, T. Losada, F. Chauvin, S. Gervois, S. Sivarajan, P.M. Ruti, S. Janicot
Impacts of the Mediterranean basins on the West African monsoon: observed connection patterns (1979-2006) and climate simulations
- Po.4A.6** E. Mohino, B. Rodriguez De Fonseca, C.R. Mechoso, S. Gervois, P.M. Ruti, F. Chauvin
Impact of Tropical Pacific Sea Surface Temperature anomalies on West African monsoon precipitation in the late XX century
- Po.4A.7** A. Voltaire, M. Joly
Role of the Gulf of Guinea and the Mediterranean in the interannual variability of the West African monsoon: what do we learn from CMIP3 coupled simulations?
- Po.4A.8** B. Pohl, H. Douville, F. Chauvin
Sensitivity of the West African monsoon to regional vs remote effects
- Po.4A.9** E. Mohino, S. Janicot
West African monsoon decadal variability and climate change
- Po.4A.10** S.M. Sall
RIPIECSA Project n° 5. Modelling rainfall and climate in West Africa: preliminary results
- Po.4A.11** O.A. Ediang, A.A. Ediang
The teleconnection between Sea Surface Temperature analysis from in situ data at East Mole, Lagos and global warming
- Po.4A.12** A.A. Touré, R. Guillon, C. Petit, V. Bichet, J.L. Rajot, D. Sebag, A. Durand, Z. Garba
A detailed record of recent climatic changes in a laminated lake core in the Sahel
- Po.4A.13** A. Barry, A. Bah
Variability and climate change in West Africa: Guinea case
- Po.4A.14** M. Bella-Medjo, S. Janicot, S. Sultan
The spatiotemporal variability of rainfall in Cameroon: links with the atmospheric circulation and sea surface temperature
- Po.4A.15** S. Gbuyiro
Prediction of seasonal rainfall over the Guinea savannah zone of Nigeria using some global teleconnections
- Po.4A.16** L. Genesio, A. Crisci, M. Pasqui, P.M. Ruti, A Dell'aquila, F.J. Doblas-Reyes
Seasonal forecasts for desert locust early warning in West Africa: predictive skill of multi-model ensembles
- Po.4A.17** N. Browne, B.J. Abiodun, B. Hewitson, M. Tadross
Seasonal forecasting over Southern Africa: simulation of general circulation and synoptic features with GCMs
- Po.4A.18** Y. Kouadio, J. Servain, L.A.T. Machado, S. Sombra
Deep rainfall episodes over the Eastern Nordeste and atmospheric and oceanic conditions in the South Tropical Atlantic: some case studies in 2004-2006
- Po.4A.19** Z. Segele, P.J. Lamb, L.M. Leslie
Time-scale quantification and analysis of Horn of Africa monsoon variability

- Po.4A.20** R. Marteau, V. Moron, N. Philippon
Spatial coherence and potential predictability of key components of the Sahelian boreal summer rainy season (1950-2000)
- Po.4A.21** A. Capo-Chichi
Climate change and food security in Benin (tropical West Africa) - a dynamic-statistical modelling approach (2005-2025)
- Po.4A.22** L. Fleury, J.L. Boichard, G. Brissebrat, S. Cloché, L. Eymard, B. Koné, L. Mastrorillo, O. Moulaye, K. Ramage
AMMA database

S4B: African easterly waves and tropical cyclones

Chair: C. D. Thorncroft, Secretary: N. Hall

- 14:00 Pr.4B.1** R. Nieto-Ferreira, T. Rickenbach, N. Guy, E. Williams
Radar observations of convective system variability in relationship to African Easterly Waves during the 2006 AMMA SOP
- 14:15 Pr.4B.2** N. Guy, R. Cifelli, S. Rutledge, W.K. Tao, T. Lang, T. Rickenbach
Multi-platform observational analysis of the 2006 West African monsoon on a regional scale
- 14:30 Pr.4B.3** C. Flamant, D.J. Parker, P. Knippertz, C. Lavaysse, J.P. Chaboureau
The impact of African Easterly Waves on the Sahelian planetary boundary layer structure, thermodynamics and dust aerosol content
- 14:45 Pr.4B.4** A.K. Gueye, S. Janicot, A. Niang, S. Sawadogo, B. Sultan, A. Diongue-Niang, S. Thiria
Synoptic climatology over Senegal during the summer monsoon season with Self-Organizing Maps
- 15:00 Pr.4B.5** T. Rickenbach, R Nieto-Ferreira, N. Guy, E. Williams
Radar-observed squall line propagation and the diurnal cycle of convection in Niamey, Niger during the 2006 AMMA IOP
- 15:15 Poster introduction
- 15.30-17.30 Poster session
- 17.30-18.30 Parallel sessions continued
- 17:30 Pr.4B.6** J. Schwendike, S. Jones
Convection in an African Easterly Wave over West Africa and the Eastern Atlantic
- 17:45 Pr.4B.7** J. Arnault, F. Roux
Tropical cyclogenesis off the West African coast: a synoptic point of view
- 18:00 Pr.4B.8** F. Chauvin, R. Roehrig, J.P. Lafore
Are there African monsoon features leading Atlantic tropical cyclogenesis?
- 18:15 Pr.4B.9** S.M. Sall
Cyclogenesis off the African coast and Atlantic basin tropical cyclone season in 2009 forecast analysis
- 18:30 Discussion

Posters

- Po.4B.1** A. Lenouo, D. Monkam, A. Kamga
High impact weather event associated with a Kenya airways crash in Douala Cameroon

- Po.4B.2** D. Koné
Interaction between extra tropical perturbations and western Africa Tropical Atmosphere: case study of 03 January 2009
- Po.4B.3** R. Cornforth, B. Hoskins
Understanding and forecasting African easterly waves using moist singular vectors
- Po.4B.4** F. Couvreux, F. Guichard, O. Bock, B. Campistron, J.P. Lafore, J.L. Redelsperger
Synoptic variability of the monsoon flux over West Africa prior to the onset
- Po.4B.5** J. Arnault, F. Roux
Comparison between two case-studies of developing and non-developing African easterly waves: absolute vertical vorticity budget
- Po.4B.6** J. Schwendike, S. Jones, M. Schmidberger, B. Vogel
Hurricane Helene (2006) and the Saharan Air Layer
- Po.4B.7** H. Gomes, D. Herdies, T. Ambrizzi
Evaluation of the AMMA data assimilation system on the CPTEC's General Circulation Model using the Physical-space Statistical Analysis System

S4C: Agricultural, livestock and natural vegetation vulnerability to climate variability and change: perceptions and adaptations

Chair: B. Barbier, Secretary: L. Genesio

- 14:00 Pr.4C.1** M. Bacci, L. Genesio, A. Di Vecchia
Translating seasonal forecasts into operational support for decision makers: limits and perspectives
- 14:15 Pr.4C.2** P. Roudier, P. Quirion, B. Sultan
How can seasonal climate forecasts change agricultural decisions? A case study on millet producers in Niger
- 14:30 Pr.4C.3** A. Reenberg
Getting the climate impact right: Coupled human-environmental timelines of adaptive land use strategies in the Sahel
- 14:45 Pr.4C.4** D. Diallo, M. Togola, D. Coulibaly, I. Daou
Land use change and ecological systems evolution in Sudanese zone of Mali: Climate and human process impacts
- 15:00 Pr.4C.5** Y.T. Brou, F. Akindes, K. Zueli, E. Servat
Climate, socio-economic changes and landscapes in Ivory Coast
- 15:15 Poster introduction
- 15.30-17.30 Poster session

S4C: Climate impacts on agriculture, livestock and natural vegetation

Chair: I. Diedhiou, Secretary: A. Ka

- 17.30-18.30 Parallel sessions continued
- 17:30 Pr.4C.6** F. Dembele, M. Karemebe, D. Diallo
Influence of climate and soil on woody vegetation in the Senegal River Basin of Mali
- 17:45 Pr.4C.7** T.E. N'Datchoh, A. Konaré, A. Diedhiou, F. Solmon
Effet de la variabilité climatique sur le régime des feux en Afrique de l'Ouest
- 18:00 Pr.4C.8** J.L. San Emeterio, B. Lacaze, C. Mering, B. Toulouse
Degradation monitoring of Sahel from NDVI and rainfall data

- 18:15 Pr.4C.9** L.E. Akpo, H. Dacosta, A.T. Diop
Pluviometric fluctuations around a point water in grazing zone (North-Senegal): effects on productivity and dynamics of frequency rate of stocking in Ferlo
- 18:30 Discussion

Posters

- Po.4C.1** K. Dosso, T.M. Kouakou, S. Konate
Effects of bush fires on the diversity and spatio-temporal dynamic of insects in a tropical moist savanna (Lamto, Central Ivory Coast)
- Po.4C.2** M. Karembe, F. Dembele, D. Diallo
Monitoring of herbaceous biomass changes on the climatic gradient in the Senegal River Basin of Mali
- Po.4C.3** A. Mahamane, K. Saley, M. Saadou, S. Jauffret, I. Wata, B. Yacoubou, B. Morou, A. Diouf, I. Mamane Maarouhi, A. Issaka, A. Tanimoune
Climate variability in Niger: potential impacts on vegetation distribution and productivity
- Po.4C.4** I. Diedhiou, R. Bayala, F.K.D. Sall, P.M. Diedhiou, K.N. Ndir, S. Sidibe, M. Sene
Influence of *Jatropha curcas* L. on soil water availability and crop (millet and Peanut) yield in two locations with contrasted rainfall patterns in Senegal
- Po.4C.5** I. Diedhiou, K.N. Ndir, P.M. Diedhiou, M. Lo, T. Gueye, S. Sidibe
Variations of morpho-metric characteristics and oil content of *Jatropha curcas* L. seed accessions along a North/South rainfall gradient in Senegal
- Po.4C.6** A.T. Amadou, J.L. Rajot, B. Marticorena, Z. Garba, C. Petit, R. Guillon
Wind erosion over Sahelian cultivated field: crop residues management
- Po.4C.7** A. NDiaye, A. Ndione, A.T. Gaye
Dynamics of arid and semi-arid regions: case of Senegal River delta
- Po.4C.8** K. Gnandi, K. Tozo, A.P. Edoth, H. Abi, K. Agbeko, K. Amouzouvi, B. Gnon, G. Tchangbedji, K. Killi, P. Bouchet, K. Akpagana
Urban air pollution and its impacts on the bioaccumulation of trace elements in market-gardening vegetables cultivated along of the highway Lome-Aného, South of Togo
- Po.4C.9** P. Oettli, B. Sultan, C. Baron
Exploring the effect of climate change on crop yield in West Africa
- Po.4C.10** R. Marteau, B. Sultan, C. Baron, S. Traore, A. Alhassane
Analysis of the relationship between start of the rainy season and farmer's sowing date in the Niamey area and its impacts on the pearl millet yields
- Po.4C.11** M. Akoudjin, J. Bouyer, J. César
Validation of the use of fruit feeding insects as ecological indicators in savannah areas
- Po.4C.12** B. Michel, J. Bouyer, J. César, M. Sangaré
Biological models as indicators of environmental changes in Sub-Saharan Africa
- Po.4C.13** S.N. Kusi, F. Allotey, J.D. Intsiful, A. Konaré
Analysis of the bio-physical and socio-economic determinants of bushfire and its impacts on the hydrological cycle of the Volta Basin of West Africa: a RIPIECSA study of the Ghanaian part of the Volta Basin
- Po.4C.14** K. Nicklin, A. Challinor, A. Tompkins
Choice and calibration of crop models for seasonal forecasting of yield in the Sahel

- Po.4C.15** S. Salack, B. Muller, A.T. Gaye, C. Sylla, M. Fall
Updated spatio-temporal overview of rainfall regimes and agro-climatological features in Senegal
- Po.4C.16** N.Y. Badiane, K. Assigbetse, S. Lo, F. Gueye, I. Diedhiou, J.L. Chotte
Agricultural and environmental impacts of the introduction of *Jatropha curcas* L. in a context of climate change and variability in Senegal

S4D: Climate impacts on health

Chair: S. Danuor, Secretary: N. Martiny

- 14:00 Pr.4D.1** S.C.K. Tay, S.K. Danuor, T. Annor, E.K. Forkuo, K. Badu, K.M. Bosompem, V. Antwi
Entomological survey of Malaria vectors within the Kumasi metropolitan area: a case study of three communities: Emena, Atonsu and Akropong
- 14:15 Pr.4D.2** C. Pierrat
For a territorial diagnostic of a sanitary risk on a fine scale: establishing and modeling environmental variables of malaria in an epidemiological survey on a rural area of southern Benin
- 14:30 Pr.4D.3** M.S. Sissoko, M. Bouare, A. Ballo, K. Sissoko, A.H. Sall, H. Traore, M.S. Traore, N. Kodio, D. Gunido, A. Tapily, Z. Sanogo, A. Diarra, M. Coulibaly, M. Berthe, B. Traore, K. Sangaré, K. Koné, J. Gaudart, O. Doumbo
Temporal and spatial surveillance of malaria risk factors in Sotuba, peri urban area of Bamako, Mali, 2008
- 14:45 Pr.4D.4** M. Mbaiguedem, N. Kodbaye
The use of PRESAO in warning the endemic diseases in Chad. Case of Bebedjia and Moundou in southern area
- 15:00 Pr.4D.5** G. Constantin De Magny, R. Murtugudde, W. Thiaw, R.R. Colwell
Are outbreaks of cholera in Africa related to high impact weather / climate events?
- 15:15 Poster introduction
- 15.30-17.30 Poster session

Chair: J.A. Ndione, Secretary: A. Morse

- 17.30-18.30 Parallel sessions continued
- 17:30 Pr.4D.6** N. Martiny, I. Chiapello, I. Jeanne, B. Marticorena, B. Sultan, B. Fontaine
Advances in the analyses of the dust/climate and meningitis relationships based on a multidisciplinary approach, as part of the French AMMA programme
- 17:45 Pr.4D.7** M. Bop, C.M.F. Kebe, J.A. Ndione, S. Sambou
Modeling of the hydrological behaviour of Barkedji's ponds in relation to the proliferation of the mosquitoes: an application of the study the Rift Valley Fever
- 18:00 Pr.4D.8** A. Faye, J.A. Ndione, C.M.F. Kebe
Rift valley Fever (RVF) breeding sites characterization in Ferlo area: assessment and monitoring of water quality parameters of Barkedji ponds during the 2008 rainy season
- 18:15 Pr.4D.9** R.S. Poueme Namegni, A. Faye, J.A. Ndione, C.M.F. Kebe, Y. Ba, D. Diallo, I. Dia, B. Sambou, M. Diallo
Impact of environmental parameters on the dynamics of aquatic and adult stages of Rift Valley Fever and West Nile vectors in Senegal
- 18:30 Discussion

Posters

- Po.4D.1** S. Adamou, M. Akogbeto
Adaptation of *Anopheles gambiae* s.l to the arid dry seasons
- Po.4D.2** F. Courtin, J. Rouamba, V. Jamonneau, I. Sidibe, A. Gouro, P. Solano
Impact of human growth and global warming on tsetse and trypanosomosis distribution in West Africa
- Po.4D.3** S.C.K. Tay, S.K. Danuor, T. Annor, E.K. Forkuo, K.M. Bosompem, V. Antwi
Investigation of the impacts of climate variability on malaria incidence and prevalence within the Kumasi Metropolitan Area in the Ashanti Region of Ghana
- Po.4D.4** A. Minga, V. Thouret, M. Saunois, C. Delon, C. Mari, D. Serça, B. Sauvage, A. Mariscal, M. Leriche, B. Cros, B. Konouhewa, A. Akpo
Very High Ozone Concentrations from probable petrochemical pollution over Cotonou during the Dry Season (DJF)
- Po.4D.5** J.A. Ndione, Y. Ba, I. Dia, M. Diallo, C.M.F. Kebe
Rift valley fever (RVF) emergence, rainfall intra seasonal variability and new vectors: analysis of 2002 and 2003 rainy seasons in Barkedji
- Po.4D.6** S.K. Danuor, S.C.K. Tay, T. Annor, E.K. Forkuo, K.M. Bosompem, V. Antwi
Climate variability and malaria incidence in peri-urban communities around Kumasi: a case study at three health facilities - Emena, Atonsu and Akropong
- Po.4D.7** E.A.T. Al Doumbia, S.A. NDiaye, C. Liousse
Characterization of atmospheric pollution in Dakar: focus on aerosol

Wednesday, July 22

Plenary session 5 - Weather and Climate Variability and Predictability

Chair: J.P. Lafore, Secretary: A. Tompkins

- 08:30 PI.5.1** A.A.A. Abebe, Z. Mumba, A. Kassimou, J.P. Lafore
AMMA forecasting: one more step forward
- 08:45 PI.5.2** A. Agusti-Panareda, A. Beljaars, S. Bouffières-Cloch , C. Cardinali, M. Dragosavac, M. Ahlgrim, M. Kohler, R. Forbes, O. Bock, F. Guichard, M. Nuret
The special ECMWF reanalysis for the AMMA field experiment during the 2006 wet monsoon season
- 09:00 PI.5.3** A. Diongue-Niang, A. Kamga, E. Afiesimama, A. Babu, A. Diedhiou, B. Lamptey, A. Mokssit, F. Opijah, E. Poolman, J. Caughey, D. Parsons
WWRP/THORPEX-Africa
- 09:15 PI.5.4** C.D. Thorncroft, G.J. Berry, M.A. Janiga
African easterly waves and convection
- 09:30 PI.5.5** C.M. Taylor
Impact of the Niger Inland Delta on Convection
- 09:45 PI.5.6** N. Hall, S. Leroux
An observational study of transient - mean flow interactions over West Africa
- 10:00 PI.5.7** S. Janicot
Intraseasonal variability of convection in the African monsoon
- 10:15 PI.5.8** G. De Co tlogon, S. Janicot, A. Lazar
Intraseasonal variability of the ocean - atmosphere coupling in the Gulf of Guinea during boreal spring and summer
- 10.30-11.00 Break
- 11:00 PI.5.9** C. Caminade, A. Morse
A multi-model reliability study over the Sahel: from seasonal forecasting to climate simulations
- 11:15 PI.5.10** A. Voldoire, S. Belamari
Understanding the oceanic biases in the equatorial Atlantic region in a coupled model through the use of a nudged atmospheric model
- 11:30 PI.5.11** F. Hourdin, I. Musat, F. Favot, F. Guichard, P.M. Ruti
The AMMA Model Intercomparison Project
- 11:45 PI.5.12** Y. Xue, F. De Sales, W.K.M. Lau, D.P. Rowell, J. Feng, A. Boone, P. Dirmeyer, Z. Guo, K.M. Kim, A. Kitoh, V. Kumar, I. Pocard-Leclercq, N. Mahowald, W. Moufouna-Okia, P. Pegion, J. Schemm, S.D. Schubert, A. Sealy, W.M. Thiaw, A. Vintzileos, M.L.C. Wu
Intercomparison of West African Monsoon and its variability in the West African Monsoon Modeling and Evaluation Project (WAMME) First Experiment
- 12:00 PI.5.13** M.A. Miller
Controls on the Atmospheric Radiative Divergence Budget in West Africa
- 12:15 PI.5.14** T. Koike
Coordinated Energy and water cycle Observations Project (CEOP)
- 12.30-14.00 Lunch

Parallel sessions 6

S6A: Intraseasonal variability

Chair: C. Zhang, Secretary: S. Janicot

- 14:00 Pr.6A.1** R. Roehrig, F. Chauvin, J.P. Lafore
Intraseasonal variability of the Saharan Heat Low and its link with the midlatitudes
- 14:15 Pr.6A.2** E.K. Vizzy, K.H. Cook
Mediterranean cold air surges: A mechanism for Northern African rainfall variability and monsoon breaks
- 14:30 Pr.6A.3** S. Leroux, N. Hall
A modelling study of transient - mean flow interactions over West Africa
- 14:45 Pr.6A.4** R. Cornforth, B. Hoskins, C.D. Thorncroft
Internal variability in the moist AEJ-AEW system
- 15:00 Pr.6A.5** P.M. Ruti, A. Dell'aquila, S. Corti
How do the large-scale models represent the West African intra-seasonal variability and its relationship with remote or local forcing.

15:15

15.30-17.30 Poster session

17.30-18.30 Parallel sessions continued

- 17:30 Pr.6A.6** W.M. Thiaw, N. Novella, V. Kumar
Features in daily satellite rainfall estimates for West Africa and related circulation characteristics in the NCEP Coupled Forecast System
- 17:45 Pr.6A.7** A. Vintzileos, T.P. Marchok, H.L. Pan, S.J. Lord
Prospects for subseasonal forecasting of Atlantic tropical cyclone activity
- 17:30 Pr.6A.8** B. Sultan, S. Janicot
Medium lead-time predictability of intraseasonal variability of rainfall in West Africa
- 17:45 Pr.6A.9** O. NDiaye, M.N. Ward
Characteristics of rainfall onset over northern and southern part of Senegal

18:30

Discussion

Posters

- Po.6A.1** S. Lavender, C.M. Taylor
Response of the West African monsoon to regional soil moisture anomalies in a GCM
- Po.6A.2** C. Lavaysse, J.P. Chaboureau, C. Flamant
Case study of intra-seasonal pulsation of the West African Heat Low in July 2006: impact of the humidity advections and aerosols
- Po.6A.3** R. Roehrig, F. Chauvin, J.P. Lafore
Intraseasonal variability of the Saharan Heat Low in the ARPEGE-Climat GCM
- Po.6A.4** M. Gaetani, P. Roucou, B. Fontaine, M. Baldi
Impacts of Warm and Cold situations in the Mediterranean Sea on the West African monsoon: intraseasonal variability in climate simulations
- Po.6A.5** S. Janicot, F. Mounier, S. Gervois, B. Sultan, G. Kiladis
The role of convectively coupled equatorial Rossby waves in the West African monsoon
- Po.6A.6** I. Pocard-Leclercq, A. Boone, Y. Xue, N. Philippon
Intraseasonal variability of surface water and energy cycles in the West African monsoon system. An ALMIP/WAMME analysis

- Po.6A.7** A.K. Gueye, B. Sultan, S. Janicot, A. Niang, S. Sawadogo, A. Diongue-Niang, S. Thiria
Short and medium lead-time prediction of rainfall in Senegal using large-scale weather types
- Po.6A.8** S. Salack, A.T. Gaye, B. Muller, F. Hourdin
Multi-scale intra-seasonal characterization of dry spells in Senegal and their implication in rainy season attributes

S6B: Aerosols-Dust-Chemistry-1 (Chemistry)

Chair: C. E. Reeves, Secretary: C. Mari

- 14:00 Pr.6B.1** A. Marcellin, C. Galy-Lacaux, C. Delon, V. Yoboue, C. Lioussé, J.P. Lacaux, K. Pienaar, H. AL Ourabi, L. Dungal, B. Diop, L. Sigha, A. Akpo, F. Lavenu
Long term measurements of nitrogen dioxide, ammonia, nitric acid and ozone in Africa using passive samplers
- 14:15 Pr.6B.2** J. Bechara, A. Borbon, C. Jambert, P. Perros
Direct evidence of deep convective transport on VOC trace gases in the upper tropical troposphere during AMMA-SOP2a2
- 14:30 Pr.6B.3** K. Law, F. Cairo, F. Fierli, H. Schlager, S. Borrmann, E. Palazzi, S. Viciani, M. Volk, C. Schiller, L. Some, AMMA Burkina, AMMA-SCOUT M55 data team
Air mass origins influencing the chemical composition of the tropical tropopause layer (TTL) over West Africa
- 14:45 Pr.6B.4** M. Saunois, V. Thouret, A. Minga, A. Mariscal, B. Sauvage, A. Soleté, D. Agbangla, P. Nedelec, C. Mari, C.E. Reeves, H. Schlager
Overview of the two year data set of ozone soundings over Cotonou and focus on the wet season 2006
- 15:00 Pr.6B.5** B. Barret, J. Williams, I. Bouarar, B. Sauvage, X. Yang, B. Josse, E. Le Flochmoen, V.H. Peuch, P. Van Velthoven, K. Law, J. Pyle, C. Lioussé
Impact of West African Monsoon convective mixing and lightning NO_x production upon upper tropospheric O₃: a multi-model study
- 15:15 Poster introduction
- 15.30-17.30 Poster session

S6B: Aerosols-Dust-Chemistry-2 (Aerosols)

Chair: A. Konare, Secretary: P. Formenti

- 17.30-18.30 Parallel sessions continued
- 17:30 Pr.6B.6** J.F. Léon, Y. Derimian, I. Chiapello, D. Tanré, T. Podvin, B. Chatenet, A. Diallo, C. Deroo
Aerosol vertical distribution and optical properties over M'Bour (16.96° W; 14.39° N), Senegal from 2006 to 2008
- 17:45 Pr.6B.7** S. Borrmann, D. Kunkel, W. Frey, K. Law, F. Cairo, L. Some, AMMA Burkina, AMMA-SCOUT M55 data team
Aerosols and clouds in the tropical tropopause layer: In-situ measurements of microphysics and chemistry over West Africa
- 18:00 Pr.6B.8** C. Lioussé, B. Guillaume, J.M. Grégoire, M. Mallet, V. Pont, C. Galy, F. Solmon, R. Rosset, D. Serça, A. Mariscal, L. Dungal, V. Yoboue, X. Bedou, A. Akpo, A. Konaré, C. Granier, A. Mieville, P. Van Velthoven
Aerosol modeling during AMMA-EOP with updated biomass burning emission inventories

18:15 Pr.6B.9 E.M. Assamoi, C. Liousse
African aerosol modelling during the year 2005 with updated fossil fuel and biofuel emissions inventories

18:30 Discussion

Posters

- Po.6B.1** C.E. Reeves, P. Formenti, G. Ancellet, J.L. Attie, J. Bechara, A. Borbon, F. Cairo, H. Coe, F. Fierli, L. Gomes, C. Lambert, K. Law, C. Mari, J. Methven, A. Minikin, J.K. Nielsen, A. Richter, H. Schlager, A. Schwarzenboeck, V. Thouret
Chemical characterisation of the troposphere over West Africa during the monsoon period as part of AMMA
- Po.6B.2** I. Bouarar, K. Law, F. Hourdin, S. Szopa, A. Cozic, H. Schlager, F. Fierli, C. Liousse, P. Nedelec, D. Stewart, J. Murphy, AMMA-SCOUT data team
Analysis of processes influencing chemical composition of the troposphere over West Africa during the summer monsoon using the LMDz_INCA global model
- Po.6B.3** J. Ferreira, C.E. Reeves, J.G. Murphy, L. Garcia-Carreras, D.J. Parker
Isoprene Emissions Modelling for West Africa using MEGAN
- Po.6B.4** A. Borbon, J. Bechara, C. Afif, C. Jambert, P.E. Perros, G. Mills, C.E. Reeves, A. Richter, H. Schlager, F. Wittrok
Chemistry and transport of formaldehyde during the AMMA Special Observation Period of summer 2006 (SOP2a2)
- Po.6B.5** A. Matsuki, A. Schwarzenboeck, S. Crumeyrolle, B. Quennehen, L. Gomes, H. Venzac, P. Laj, O. Laurent, G. Momboisse, T. Bourriane
Mixing states and related hygroscopicity of aerosol particles over West Africa: AMMA aircraft campaign in summer 2006
- Po.6B.6** S. Crumeyrolle, L. Gomes, P. Tulet, A. Matsuki, A. Schwarzenboeck, H. Venzac, P. Laj, O. Laurent, G. Momboisse, T. Bourriane
The impact of the mesoscale convective systems (MCS) on aerosol physical and chemical properties, focusing on hygroscopicity, during the AMMA campaign
- Po.6B.7** A. Konaré, C. Liousse, F. Solmon, S. Ibrahs, F. Giorgi
Direct radiative forcing and regional climatic impacts of biomass burning aerosols over West and Central Africa
- Po.6B.8** E. Orlandi, E. Real, K. Law, F. Fierli, F. Cairo, J. Leclair De Bellevue, S. Borrmann, D. Kunkel, D. Josset, H. Schlager, C.M. Volk, C. Liousse, P. Nedelec, V. Thouret, J. Gille, N.J. Livesey, AMMA-SCOUT data team
Analysis of biomass burning plume transport during summer 2006
- Po.6B.9** I. Chiapello, D. Tanré, P. Goloub, J.L. Deuze, F. Waquet, F. Ducos
Analysis of PARASOL aerosol retrievals in the North West Africa region during AMMA EOP (2005-2008)
- Po.6B.10** V. Pont, M. Mallet, C. Liousse, L. Gomes, F. Malavelle, F. Solmon, C. Galy, E. Gardrat, P. Castera
Mixing of dust and carbonaceous aerosols: three concepts of chemical scheme from AMMA dry season experiment (SOP0 - january 2006) at Djougou (Benin)
- Po.6B.11** F. Malavelle, V. Pont, F. Solmon, M. Mallet, J.F. Léon, C. Liousse
Regional radiative impacts of mixed dust and carbonaceous aerosols over West Africa during AMMA experiment

- Po.6B.12** M. Mallet, V. Pont, C. Liousse, L. Gomes, F. Malavelle, F. Solmon, P. Castera, E. Gardrat
Dry microphysical and optical properties of fresh carbonaceous aerosols estimated during the AMMA dry season experiment at Djougou (Benin)
- Po.6B.13** V. Buchard, I. Chiapello, C. Brogniez, J.F. Léon
Analysis of OMI aerosols retrievals during AMMA in 2006
- Po.6B.14** Y. Derimian, J.F. Léon, O. Dubovik, I. Chiapello, D. Tanré, A. Sinyuk, F. Auriol, T. Podvin, G. Brogniez, B.N. Holben
Aerosol optical properties and radiative effect observed over M'Bour, Senegal (AMMA campaign)
- Po.6B.15** H. Cachier, M.H. Pertuisot, R. Sarda-Esteve, A. Diallo, A.J. Garane
Atmospheric particulate pollution in Ouagadougou. Potential health impacts

S6C: Water cycle

Chair: A. Agusti-Panareda, Secretary: M. Gosset

- 14:00 Pr.6C.1** O. Bock, R. Meynadier, F. Guichard, A. Boone, A. Gounou
Diurnal cycle of the West African Monsoon water cycle: regional and seasonal variability
- 14:15 Pr.6C.2** R. Meynadier, O. Bock, F. Guichard, A. Boone, J.L. Redelsperger
Investigation of the West African Monsoon water cycle from Numerical Weather Prediction models and elaborate products
- 14:30 Pr.6C.3** M. Nuret, O. Bock, J.P. Lafore, F. Guichard, D.J. Parker, A. Fink, E. Houngninou
Correction of humidity bias for Vaisala RS80-A and MODEM sondes during AMMA 2006 observing period
- 14:45 Pr.6C.4** Z. Mumba, J.P. Lafore, F. Rabier
AMMA Data impact: Definition of an optimum observation network for West Africa
- 15:00 Pr.6C.5** E. Gérard, F. Karbou, F. Rabier, J.P. Lafore, J.L. Redelsperger, O. Bock
The use of satellite microwave observations over land to improve the hydrological cycle over the Tropics
- 15:15 Poster introduction
- 15.30-17.30 Poster session
- 17.30-18.30 Parallel sessions continued
- 17:30 Pr.6C.6** M. Grippa, L. Kergoat, F. Frappart, Q. Araud, A. Boone, P. De Rosnay, J.M. Lemoine, the ALMIP group
Evaluation of land water storage changes over West Africa estimated by GRACE and by land surface models
- 17:45 Pr.6C.7** T. Pellarin, T. Tran, J.M. Cohard, S. Galle, J.P. Laurent, P. De Rosnay, T. Vischel
High resolution soil moisture mapping over West Africa using AMSR-E observations and a satellite-based rainfall product
- 18:00 Pr.6C.8** A. Zannou, C. Peugeot, M. Le Lay, M. Diederich
Impact of the origin (observations, satellite or model products) of forcing data on water resources variability as simulated by TOPAMMA hydrological model: 2005 case-study on the Upper Ouémé watershed in Benin.
- 18:15 Pr.6C.9** R. Malou, F.D. Ngom, H. Dacosta, L.E. Okpo, M. Gueye, A. Gning
Groundwater fluctuations, a record of climatic change. Case study in Senegalo-Mauritanian basin in Senegal (West Africa)
- 18:30 Discussion

Posters

- Po.6C.1** O. Bock, M. Nuret
Verification of NWP model analyses and radiosonde humidity data with GPS precipitable water vapor estimates during AMMA
- Po.6C.2** S. Gervois, O. Bock, R. Meynadier, A. Agusti-Panareda, F. Guichard
Comparison of dynamical features and atmospheric water budget terms from ECMWF operational analysis and AMMA reanalysis during the SOP 2006
- Po.6C.3** W. Pokam Mba, F. Mkankam Kamga
Atmospheric water cycle in Equatorial Central Africa through NCEP/NCAR reanalysis data
- Po.6C.4** V. Le Dantec, F. Timouk, P. Hiernaux, L. Kergoat, E. Mougin
Net CO₂ and water exchanges in a semi-arid region (Gourma, Mali)
- Po.6C.5** K.A. Koffi, E.P. Zahiri, M. Gosset, P. Assamoi
Attenuation correction for an X-band radar parameter and estimation of precipitation in north Benin during the AMMA campaign
- Po.6C.6** U. Alle, A. Afouda, E. Houngninou, E. Lawin
Rainfall intensity analysis from rain gauge network data of AMMA CATCH, Benin: starting of modeling of hyetogramme curve
- Po.6C.7** S. Moumouni, E. Houngninou, S. Massou, M. Gosset, E. Houngninou
The analysis and modeling of the variability of the space structure of the rainy events in the upper Ouémé valley in Benin
- Po.6C.8** B. Ibrahim, L. Descroix, T. Lebel, T. Vischel, S. Boubkraoui
Analysis of pluviometric persistence on the square degree of Niamey
- Po.6C.9** L. Descroix, B. Ibrahim, K. Souley Yero, A. Diedhiou
Vegetation pattern and rain fields in the Sahel
- Po.6C.10** A.D. Ochou, E.P. Zahiri, B. Bamba, H. Sauvageot
Variability of Z-R relationships caused by natural variations in raindrop size distribution (DSD): Implications of the number and size of drops
- Po.6C.11** P.E. Kirstetter, N. Viltard, M. Gosset
Validation of satellite-retrieved vertical profiles of rainfall using ground-based radars
- Po.6C.12** S. Moumouni, M. Gosset, E. Houngninou
Study of the variability of rain drop size distributions over different temporal scales and its impact on the Z-R relationship, based on AMMA observations in Benin
- Po.6C.13** S. Diatta, N. Viltard, A.T Gaye
Characteristics of vertical rain profiles associated to MCS life cycle in West Africa during AMMA

S6D: Climate impacts on agriculture, livestock and natural vegetation

Chair: C. Baron, Secretary: L. Somé

- 14:00 Pr.6D.1** E. Vintrou, M. Houles, D. Lo Seen, C. Baron
Mapping cultivated area in West Africa using MODIS imagery and agroecological stratification
- 14:15 Pr.6D.2** B. Sultan, A. Alhassane, S. Traore, C. Baron, B. Muller, P. Roudier, R. Marteau, L. Descroix, V. Chaffard, S. Boubkraoui, M. Dingkuhn
A multiscale observation and modeling study in the millet zone in Niger: the role of intraseasonal variability of rainfall on yields

- 14:30 Pr.6D.3** B. Somé, A. Barro, M. Sanon, T. Lodun, L. Somé
Impacts of monsoon on corn (*Zea mays*) crops in north sudanian zone in Burkina Faso
- 14:45 Pr.6D.4** M. Bella-Medjo, B. Sultan, S. Janicot
The role of rainfall parameters in the cotton yield in the north of Cameroon
- 15:00 Pr.6D.5** I. Yabi, M. Boko
Raining disturbance and production of cotton in the Department of the Hills to the Benin: example of the year 2007
- 15:15 Poster introduction
- 15.30-17.30 Poster session

Chair: S. Traore, Secretary: B. Muller

- 17.30-18.30 Parallel sessions continued
- 17:30 Pr.6D.6** A. Berg, B. Sultan, N. De Noblet
Simulating crop yields over West Africa with ORCHIDEE: sensitivity of model skill to rainfall forcing
- 17:45 Pr.6D.7** C. Baron, P. Reitz, B. Muller, S.B. Traore, V. Bonnal
The SARRA_H modeling platform: a tool for climate impact studies
- 18:00 Pr.6D.8** A. Alhassane, S.B. Traore, C. Baron, B. Muller, B. Sultan, M. Dingkuhn, M. Zouzou
Adaptation and evaluation of the SARRA-H crop model for agricultural yield forecasting in West Africa
- 18:15 Pr.6D.9** A.K. Gueye, M. Diop, B. Sultan, A. Niang, S. Sawadogo, S. Janicot
Examining the performance of a statistical downscaling method through the use of a crop model: a case study in Senegal
- 18:30 Discussion

Posters introduced on Tuesday, July 21 afternoon, in session 4C

Thursday, July 23

Plenary session 7 - Society-Environment-Climate Interactions

Chair: S. Traore, Secretary: L. Genesisio

- 08:30 PI.7.1** B. Muller, C. Baron, S. Traore, A. Alhassane, M. Kouressy, M. Vaksman, M. Diop, L. Somé, M. Sanon, B. Sultan, A. Siene, P. Kouakou, S. Oumarou, A. Sarr, B. Ouatarra, S. Salack, A. Faye, M. Dingkuhn
Assessing climate impact on West African non-intensified crops: a captivating challenge for agro-modelers
- 08:45 PI.7.2** M. Bacci, A. Di Vecchia, M. NDiaye, I. Assane, L. Genesisio
Using rainfall estimate and forecasted precipitation to early detect seeding failures and crops stress areas
- 09:00 PI.7.3** S. Kiema
Climate Change and livestock expansion in West Burkina Faso savannahs
- 09:15 PI.7.4** O. Mertz, C. Mbow, J.Ø. Nielsen, A. Maiga, A. Ka, D. Diallo, P. Cissé, D. Coulibaly, B. Barbier, E. DA Dapola, T.P. Zoungrana, I. Bouzou Moussa, W.M. Maman, B. Amadou, A. Mahaman, A. Mahaman, A. Oumarou, D. Dabi, V. Ihemgbulem, A. Diouf, M. ZoromE, I. Ouattara, M. Kabre, A. Reenberg, K. Rasmussen, I. Sandholt
Linking climate factors and adaptation strategies in the rural Sahel-Sudan zone of West Africa
- 09:30 PI.7.5** M. Kouressy, M. Vaksman, P.S. Traore, C. Baron, B. Muller, S. Sangaré, M. Dingkuhn
Cropping strategies to buffer against climate change in the Sudano-Sahelian environment: a case study from Mali
- 09:45 PI.7.6** E. Lambin, K. Rasmussen, O. Mertz, A. Reenberg, C. Mbow
Scenarios of the future of the Sahel: Integrating climate, land and socio-economic changes
- 10:00 PI.7.7** P. Cissé, A. Diouf, J.Ø. Nielsen
Migration as an adaptation strategy to climate change and variability in the West African Sahel
- 10:15 PI.7.8** C. Araujo Bonjean, P. Quirion, C. Simonet
Impact of the Monsoon on the Grain Markets in a Sahelian country: Case Study of the Millet in Burkina Faso
- 10.30-11.00 Break
- 11:00 PI.7.9** S. Garcia, J. Giraldo
From droughts to floods on Senegal River basin: a statistical assessment from RCM
- 11:15 PI.7.10** J. Okpara, A.C. Anuforum, M. Perrumal
Modeling the impacts of climate change on water resources of Niger River basin using Artificial Neural Networks Synergy
- 11:30 PI.7.11** A. Niang Fall, A. Kane
The Niayes wetland (Senegal), between climate variability and environmental vulnerability
- 11:45 PI.7.12** S. Becerra, A.H. Dia, F. Gangneron
«Hey, Mrs. Jerrycan!»: the social management of the water crisis in Hombori (Mali)
- 12:00 PI.7.13** A. Morse, C. Caminade, A. Jones
Seamless thinking for impacts modelling in Africa

- 12:15 PI.7.14** C. Liousse, C. Galy-Lacaux, E.M. Assamoi, A. NDiaye, B. Diop, V. Yoboue, H. Cachier, J.P. Laccaux, B. Guinot, R. Rosset, E. Gardrat, P. Castera, S. Audry, C. Zouiten, C. Jambert, B. Guillaume, O. Koita, A. Diouf, A. Baeza, I. Annesi-Maesano, E. Serrano, A. Didier, A. Konaré
Integrated Focus on West African cities (Cotonou, Bamako, Dakar, Ouagadougou, Abidjan, Niamey): Emissions, Air quality and Health Impact of gases and aerosols
- 12.30-14.00 Lunch

Parallel sessions 8

S8A: Ocean processes

Chair: G. Caniaux, Secretary: P. Brandt

- 14:00 Pr.8A.1** P. Brandt, A. Fink, V. Hormann, R. Zantopp, J. Fischer, B. Giese
The Equatorial Undercurrent in the central tropical Atlantic and its relation to the equatorial cold tongue
- 14:15 Pr.8A.2** B. Bourlès, F. MARIN, G. Caniaux, N. Kolodziejczyk, Y. Gouriou
Sea Surface Temperature and Equatorial Currents in the Gulf of Guinea during the EGEE/AMMA experiments (2005-2007)
- 14:30 Pr.8A.3** H. Giordani, G. Caniaux, M. Wade
On the formation of the Atlantic Cold Tongue in the Gulf of Guinea during the AMMA/EGEE-3 Experiment
- 14:45 Pr.8A.4** G. Caniaux, H. Giordani, M. Wade, M. Dengler, R. Hummels
The role of diapycnal mixing for simulating the eastern tropical Atlantic ocean
- 15:00 Pr.8A.5** G. Charria, B. Bourlès, F. Marin, Y. Du Penhoat, L. Testut, N. Rousseau, P. Techiné, L. Roblou
Interannual variability of November-December cooling in the Gulf of Guinea close to the São Tomé island
- 15:15 Poster introduction
- 15.30-17.30 Poster session
- 17.30-18.30 Parallel sessions continued
- 17:30 Pr.8A.6** E. Key, A. Subramaniam
Biophysical Variability in the Congo Plume and Gulf of Guinea
- 17:45 Pr.8A.7** I. Polo, B. Rodriguez De Fonseca, A. Lazar, A.C. Peter, J. Mignot
Growth and decay of the Tropical Atlantic Equatorial Mode: a closed budget analysis of the SST evolution in a coupled GCM
- 18:00 Pr.8A.8** S. Faye, B.A. Sow, A. Lazar
Simulation of the Senegalo-Mauritanian upwelling: How are the winds actually driving SST variability and water mass renewal?
- 18:15 Pr.8A.9** R. Djiman, R. Folorunsho, A. Aman, C. Mahan, C. Assemian, A.K. Armah, A.B. Blivi, B. Bourlès
Status of the Regional Program of Physical Oceanography in West Africa (Gulf of Guinea; 2005-2007)
- 18:30 Discussion

Posters

- Po.8A.1** O.A. Ediang, A.A. Ediang
Understanding ocean surges and possible signals over the Nigerian coast

- Po.8A.2** D. Dagorne, H. Demarcq
Satellite Oceanic Observatory Atlas; part I: Historical data
- Po.8A.3** D. Dagorne, H. Demarcq
Satellite Oceanic Observatory Atlas; part II: Near Real Time data
- Po.8A.4** F. Tohozin, B. Bourlès, C. Adje, Z. Sohoun, G. Degbe, R. Djiman
Analysis of the Coastal Sea Surface Temperature in Cotonou (Benin) from historical and Propao data sets (first results)
- Po.8A.5** G. Caniaux, F. Guichard, D. Bourras, E. Key, H. Giordani, B. Bourlès
Evaluation of sea surface flux fields from NWP models during the emplacement of the Atlantic Cold Tongue in 2006
- Po.8A.6** G. Caniaux, M. Wade, H. Giordani
Statistical analysis of the Atlantic Cold Tongue
- Po.8A.7** M. Wade, Y. Du Penhoat, G. Caniaux, H. Giordani
Response of the Equatorial Atlantic Ocean to wind forcing anomalies

S8B: Land processes

Chair: C. M. Taylor, Secretary: E. Mougin

- 14:00 Pr.8B.1** N. Boulain, B. Cappelaere, D. Ramier, J. Demarty, S. Fontaine, B.A. Issoufou, L. Descroix, J. Seghier
Field and model results from eco-hydrological studies in AMMA-Niger
- 14:15 Pr.8B.2** L. Kergoat, P. Hiernaux, J. Gardelle, M. Grippa, E. Mougin
On ponds and plants: paradoxes of the Sahel drought
- 14:30 Pr.8B.3** A. Guyot, J.M. Cohard, S. Anquetin, S. Galle
Three year time series of sensible and latent heat fluxes over a patchy savannah in West Africa using Large Aperture Scintillometer measurements
- 14:45 Pr.8B.4** P. Harris, C.M. Taylor
Energy and water fluxes from a land surface model constrained by Meteosat land surface temperatures
- 15:00 Pr.8B.5** M. Ibrahim, G. Favreau, P. Genthon, Y. Nazoumou, S. Boubkraoui, B. Cappelaere
Groundwater cooling is a marker of land use change in SW Niger
- 15:15 Poster introduction
- 15.30-17.30 Poster session
- 17.30-18.30 Parallel sessions continued
- 17:30 Pr.8B.6** E. Williams, W. Balsam, J. Ji, C.D. Thorncroft, C. Schaaf, X. Yang, Q. Zhang, E. Hicks
Iron Oxide Control on the Surface Albedo of West Africa
- 17:45 Pr.8B.7** V. Trichon, R. Walcker, P. Hiernaux, E. Mougin
50 years of woody plant population dynamics in Sahel (Gourma, Mali): a survey based on aerial photographs
- 18:00 Pr.8B.8** A.B. N'Dri, A. Dembele, S. Konate, J. Gignoux
Impact of fire and its intensity on vegetation dynamics in a West African savanna
- 18:15 Pr.8B.9** A. Kaptue, J.L. Roujean, S. Faroux
The ECOCLIMAP-II programme: a new land cover classification at 1Km from MODIS and vegetation data time series over the Western Africa in the frame of AMMA project
- 18:30 Discussion

Posters

- Po.8B.1** A. Boone, I. Pocard-Leclercq, Y. Xue, J. Feng, P. De Rosnay
Evaluation of the WAMME model surface fluxes using results from the AMMA land-surface model inter-comparison project (ALMIP)
- Po.8B.2** J. Demarty, N. Boulain, D. Feurer, P. Brender, A. Berg, D. Ramier, B. Cappelaere, C. Otle, B. Sultan, A. Boone
An overview of the most recent LSM simulations over the AMMA-Niger site
- Po.8B.3** M. Kohler, G. Schädler, L. Gantner, N. Kalthoff, F. Königer, C. Kottmeier
Validation of two SVAT models for different periods during the West African monsoon
- Po.8B.4** M.A. Gaertner, M Dominguez
A modelling case study of soil moisture-atmosphere coupling
- Po.8B.5** T. Koike
Integration of hydro-climate data for sound decision making
- Po.8B.6** D. Feurer, B. Cappelaere, J. Demarty, C. Otle, T. Vischel, N. Boulain, D. Ramier
Water and energy budgets over the AMMA-Niger super site: a multiobjective approach to quantify surface properties used in a spatially-distributed SVAT model
- Po.8B.7** L. Kergoat, F. Timouk, P. Hiernaux, E. Mougín, E. Ceschia, C.R. Lloyd, C.M. Taylor, J.M. Cohard, F. Guichard, P. De Rosnay, V. Demarez
Surface energy balance in the Sahel and the role of lateral water redistribution
- Po.8B.8** L.A. Sunmonu, O.O. Jegede, M. Mauder
Investigation of surface energy balance closure at a tropical site in Nigeria, West Africa
- Po.8B.9** O. Mamadou, S. Galle, J.M. Cohard, B. Kounouhewa
Daily and seasonal energy budget variations of a fallow and a clear forest in sudanian climate
- Po.8B.10** D. Robert, J.M. Cohard, T. Pellarin, A. Guyot, S. Galle
Study of actual evapotranspiration variability over a patchy savannah in West Africa using the ISBA model and results of scintillometer measurements
- Po.8B.11** B. Kounouhewa, G. Koto N’Gobi, O. Mamadou, S. Galle, J.M. Cohard
Part of condensation processes in the evapotranspiration budget under sudanian climate
- Po.8B.12** C. Gruhier, P. De Rosnay, Y. Kerr, L. Kergoat, E. Mougín, M. Grippa, L. Desbiendras
Soil moisture over a Sahelian area: synthesis of several studies over meso-scale area of Mali
- Po.8B.13** M. De Kauwe, C.M. Taylor, G. Weedon
Temporal and spatial scales of land surface temperature variability in the Sahelian wet season
- Po.8B.14** A. Berg, P. Brender, N. Boulain, D. Ramier, B. Sultan, N. De Noblet, P. Ciais, C. Otle, B. Cappelaere, J. Demarty
Representing agro-pastoral sahelian ecosystems in the global land surface model ORCHIDEE: in situ validation and comparison between croplands and grasslands
- Po.8B.15** J. Seghier, C. Peugeot, A. Rocheteau, P. Agbani, J.M. Cohard, S. Galle, O. Mamadou, L. Seguis
Contribution of dominant woody species to transpiration: first results from sap flow measurements on the sudanian site of AMMA (Benin)

- Po.8B.16** B.A. Issoufou, J. Seghier, N. Boulain, A. Mahamane, M. Saadou
Contribution of shrubs to local rainfall retraining toward the atmosphere in agricultural Sahelian environment
- Po.8B.17** R. Ogouwale, D. Abdoulaye, C. Houssou
State of surfaces dynamism impacts on out-flows of Okpara basin in Benin (West Africa)
- Po.8B.18** A. Wakponou, M. Mainguet
The Harmattan's contribution to vertisoils' edaphic process in the cameroonian sudano - sahelian milieu
- Po.8B.19** G. Abdelrahman
Effect of wind erosion on soil profile characteristics at North Sinai desert
- Po.8B.20** C. Pierre, G. Bergametti, B. Marticorena, E. Mougín
Pluriannual comparison of sahelian rainfall products for vegetation modelling
- Po.8B.21** M. Grippa, E. Mougín, V. Demarez, L. Kergoat, C. Gruhier, P. Hiernaux, F. Baup, L. Larouzière, P. De Rosnay, T. Pellarin, S. Galle, T. Lebel, L. Descroix, I. Zin, C. Peugeot, B. Cappelaere, J. Demarty, N. Boulain, L. Seguis, C. Otle, S. Saux-Picart, M. Zribi
Evaluation of remote sensing products over the AMMA-CATCH observatory in West Africa
- Po.8B.22** E. Brisson, I. Zin
SPOT/HRVIR and SPOT/VGT data merging for an improved vegetation dynamics monitoring over the Donga catchment (Benin)

S8C: Socio-economic vulnerability and adaptations

Chair: J. Nielsen, Secretary: P.D. Fall

- 14:00 Pr.8C.1** J.Ø. Nielsen
Choosing Against Adaptation Cultural barriers to climate change adaptation: a case study from Northern Burkina Faso
- 14:15 Pr.8C.2** L. Flint
Communities, climate change vulnerability, impacts and adaptation in the Afram Plains region of Ghana
- 14:30 Pr.8C.3** N. Tellro Waï
Adaptation of Chad to climate change: Role of local communities in the determination of vulnerability and identification of potential adaptation measures in the NAPA context
- 14:45 Pr.8C.4** N. Akinyi Omolo
Gender, pastoralism and climate change in northern Kenya: Vulnerability and adaptation
- 15:00 Pr.8C.5** A. Bonnassieux, R. Ciavolella
Questioning Environmental Vulnerability Impact on Migration and Immobility in Hombori (Mali)
- 15:15 Poster introduction
- 15.30-17.30 Poster session

Chair: P. Quirion, Secretary: A.H. Dia

- 17.30-18.30 Parallel sessions continued

- 17:30 Pr.8C.6** S. D'Haen, E.F. Lambin
Wealth increases for Burkinabe households despite climate variability
- 17:45 Pr.8C.7** A. Leblois, P. Quirion
Agricultural insurances based on weather indexes: realizations, methods and barriers to their development in Western Africa
- 18:00 Pr.8C.8** P.A. Kinda
Climate risk management in vulnerable urban areas in Burkina Faso
- 18:15 Pr.8C.9** A.H. Dia, S. Becerra, F. Gangneron
Chronics of a locked governance: environmental public policies and its implications on the adaptation capacity of local communities: the case of the empowering process concerning the renewable natural resources management in Mali.
- 18:30 Discussion

Posters

- Po.8C.1** P. Oumba
The contribution of the clean development mechanism to sustainable development, and as a guarantee in the reduction of climatic change in African countries
- Po.8C.2** P.C. Gnangle, R. Glele Kakal, N. Sokpon
Climate change: perception and adaptations on farmers face to the shea tree (*Vitellaria paradoxa*) management under climatic transition conditions in Benin centre
- Po.8C.3** A. Sall, A. Touré
Participatory information platform on vulnerable communities adaptation to climate change (InfoClim)
- Po.8C.4** A. Leblois, P. Roudier, P. Quirion, B. Sultan
Weather-index drought insurance for millet producers in Niger: potential interest to farmers and quantification of the risk for an insurer
- Po.8C.5** B. Sultan, B. Barbier, J. Fortilus, S.M. Mbaye, G. Leclerc
Estimating the potential economic value of the seasonal forecasts in West Africa: a long-term ex-ante assessment in Senegal
- Po.8C.6** B. Toulouse, C. Mering
Analysis of Sahelian rural people speeches about their use of savannah vegetation in the context of African monsoon variability and climate change
- Po.8C.7** B. Muller, J. Syroka, W. Dick, O. Mahul, C. Silla, P. Kouakou, A. Ndao
Weather index based insurance: a potential tool to promote intensification despite highly variable rainfall. Application to groundnut producers in Senegal
- Po.8C.8** E. Afiesimama, J.E. Alozie, N.O. Nnoli, S.M. Wilson
Perspectives of observed climate change and the socio-economic implications in Nigeria
- Po.8C.9** G. Yanon, A. NDiaye, P.D. Fall, T. Sané
Climatic variability in Senegal: strategies of adaptations related to the rural migration towards Dakar
- Po.8C.10** M. Saqalli
Testing social-driven forces on the evolution of Niger Sahelian rural farming socio-systems: a combined agent-based modelling and anthropological approach
- Po.8C.11** P.D. Fall
An anthropological approach to climate vulnerability in the groundnut basin of Senegal: the rural community of Ndiayène Sirakh (in the region of Thiès)

- Po.8C.12** A. Kazika Kamosi
Les effets socio-économiques et environnementaux de la variabilité du climat dans les localités de Popokabaka, en RD Congo entre 2007 et 2008
- Po.8C.13** A. Niang War, A. NDiaye, C. Mbow, J.A. Ndione, A.T. Diaw, E. Da Dapola
Policies and adaptations strategies to the climate vulnerability in Senegal
- Po.8C.14** A. Diouf, J.Ø. Nielsen, P. Cissé, C. Mbow, O. Mertz, A. Maiga, A. Ka, D. Diallo, D. Coulibaly, B. Barbier, E. Da Dapola, T.P. Zoungrana, I. Bouzou Moussa, W.M. Maman, B. Amadou, A. Mahaman, A. Mahaman, A. Oumarou, D. Dabi, V. Ihemegbulem, M. Zorome, I. Ouattara, M. Kabré, A. Reenberg, K. Rasmussen, I. Sandholt
Vulnerability and adaptation to climate variability in the Sahel: gender and livelihood
- Po.8C.15** M. Messouli, H. Ould Sidi Ali
Adaptating to climate change and variability in Southern Mauritania: an interdisciplinary approach to data integration for understanding regional patterns relevant to stakeholders

Friday, July 24

Parallel sessions 9

S9A: Mesoscale convective systems and Atmospheric boundary layer

Chair: E. Williams, Secretary F. Guichard

- 08:30 Pr.9A.1** C. Barthe, N. Asencio, J.P. Lafore, M. Chong, B. Campistron
Comparison between Doppler radar observations and cloud-resolving simulations: multi-scale analysis of the 25-27 July 2006 convective period over Niamey.
- 08:45 Pr.9A.2** M. Gosset, M. Adamou, P.E. Kirstetter
Variety of Mesoscale Convective Systems and variability of rainfall structure observed in Benin: consequences for precipitation estimation.
- 09:00 Pr.9A.3** J. Yu, J.Y. Grandpeix
A new parametrization of sub-grid scale orography thermal effect on deep convection triggering
- 09:15 Pr.9A.4** G. Penide, V. Giraud, D. Bouniol, P. Dubuisson, C. Durouré, A. Protat
The 7 to 9 September 2006 AMMA Anvil-cirrus cloud case study: Numerical Simulation of the Dynamics, Cloud Microphysics, and Synthetic observations
- 09:30 Pr.9A.5** C. Bouet, G. Cautenet, S. Cautenet, B. Marticorena, G. Bergametti, B. Chatenet, J.L. Rajot, L. Descroix, M. Martet, A. Boone
What are the critical parameters to model tropical mesoscale convective systems?
- 09:45 Pr.9A.6** A. Laing, C. Davis
Numerical simulation of the evolution of long-lived episodes of organized convection in Africa
- 10:00 Pr.9A.7** G. Adamou, A.V. Lebvoua, M. Moussavou
Convective Systems Genesis and dissipation conditions during AMMA 2006 Campaign
- 10:15 Pr.9A.8** M.A. Janiga, C.D. Thorncroft
The impact of African easterly waves on the environment and characteristics of convection during the wet season
- 10.30-11.00 Break
- 11.00-12.30 Parallel sessions continued
- 11:00 Pr.9A.9** C. Rio, F. Couvreux, F. Guichard, A. Gounou, M. Lothon, B. Campistron, M. Chong, D. Bouniol
The 10th of July 2006 over Niamey: a golden case of daytime moist convection in a semi-arid environment
- 11:15 Pr.9A.10** G. Canut, F. Couvreux, M. Lothon, F. Lohou, F. Said
The entrainment process between the Monsoon flow and the Saharan Air Layer in the West African Monsoon system
- 11:30 Pr.9A.11** F. Lohou, B. Campistron, G. Canut, P. Durand, M. Kalappureddy, M. Lothon, F. Said, D. Serça
Downscaling from the African Easterly Jet to the surface through the Planetary Boundary layer
- 11:45 Pr.9A.12** M. Doukouré, S. Anquetin, J.M. Cohard
Turbulent flux variability within the heterogeneous ARA catchment in Benin: a numerical study using the LES Meso-NH model
- 12:00 Pr.9A.13** L. Garcia-Carreras, D.J. Parker, J.G. Murphy, C.M. Taylor, C.E. Reeves
Observations of mesoscale atmospheric circulations induced by vegetation heterogeneity

12.30-14.00

Lunch

Posters introduced on Tuesday, July 21, afternoon, in session 4B

- Po.9A.1** M.A. Janiga, C.D. Thorncroft, E. Williams
The environment and characteristics of convective events over Niamey, Niger: AMMA SOP2 observations and climatological context
- Po.9A.2** L. Gantner, N. Kalthoff
Modelled life cycle of a mesoscale convective system over West Africa and its sensitivity to soil conditions
- Po.9A.3** N. Asencio, J.P. Lafore, A. Boone, F. Guichard, J.L. Redelsperger
Land surface-atmosphere feedback analyze based on sensitivity experiments of cloud-resolving simulations on the 25-27 July 2006 convective period over Niamey
- Po.9A.4** C.M. Taylor, P. Harris, D.J. Parker
Impact of soil moisture on the development of a Sahelian mesoscale convective system: a case study from the AMMA Special Observing Period
- Po.9A.5** B. Adler, L. Gantner, N. Kalthoff
Analysis of the initiation and modification of mesoscale convective systems based on heat, moisture and momentum budget calculations
- Po.9A.6** A. Gounou, F. Guichard, F. Couvreur, C.M. Taylor, P. Harris, R. Ellis
A satellite-based study of the links between soil moisture and convection initiation in West Africa
- Po.9A.7** N. Rochetin, J.Y. Grandpeix, P. Cerlini
A study of moist convection sensitivity to surface-boundary-conditions based on CRM and SCM simulations
- Po.9A.8** E. Orlandi, F. Fierli, S. Davolio, A. Buzzi
Validation of mesoscale meteorological simulations over West Africa in 2006: a three day case study and a two month simulation
- Po.9A.9** S. Jolivet, A. Delaplace, N. Viltard
East/West comparison of squall line structures during AMMA
- Po.9A.10** E. Williams, W. Lyons, Y. Hobara, V. Mushtak, N. Asencio, R. Boldi, J. Bor, S. Cummer, E. Greenberg, M. Hayakawa, R. Holzworth, V. Kotroni, J. Li, C. Morales, T. Nelson, C. Price, B. Russell, G. Satori, K. Shirahata, Y. Takahashi, K. Yamashita
Ground-based detection of sprites and their parent lightning flashes over Africa during the 2006 AMMA campaign
- Po.9A.11** M. Gosset, R. Roca
The Megha Tropiques mission: scientific objectives and opportunities of collaboration with the AMMA community
- Po.9A.12** F. Couvreur, D. Bouniol, P.H. Kamsu-Tamo, M. Leplay, F. Guichard, E. O'Connor
Documentation of cloud characteristics inferred from ground and satellite measurements within West Africa
- Po.9A.13** G. Penide, V. Giraud, D. Bouniol
MCS cloud classification from MSG infrared radiometer versus C-band radar over Niamey, Niger during AMMA
- Po.9A.14** T. Noël, N. Viltard, G. Scialom, V. Marecal
Influence of the dynamics on the microphysics in the West African squall lines
- Po.9A.15** V. Giraud, C. Durouré, W. Wobrock
Statistical comparisons of observed and simulated hydrometeor size distributions in MCS using the AMMA 2006 airborne data set

- Po.9A.16** C. Duroure, C. Forlay, V. Giraud, D. Bouniol, A. Protat, Y. Dufournet
Variability of ice hydrometeor growth processes observed from airborne in mesoscale convective systems during AMMA and in mid-latitude convective systems during COPS
- Po.9A.17** C. Mari, C. Barthe, J.P. Chaboureau, P. Tulet, H. Huntrieser, H. Holler, F. Roux, J.P. Pinty
Tracing vertical transport by mesoscale convective systems over West Africa
- Po.9A.18** D.A. Vondou, A. Nzeukou, F. Mkankam Kamga
Variability of the diurnal cycle of convective activity over Cameroon
- Po.9A.19** Y. Sane, M. Bonazzola, F. Hourdin, A. Diongue-Niang, A. Diedhiou
Diurnal cycle of precipitation at Dakar in the model LMDZ
- Po.9A.20** K. Abdou, D.J. Parker, B. Brooks, N. Kalthoff, A. Diedhiou, T. Lebel
The diurnal cycle of lower boundary layer wind in the West African monsoon
- Po.9A.21** P. Kafando, F. Chane Ming, M. Petitdidier
Gravity wave parameters over the West African area

S9B: Aerosols-Dust-Chemistry-3 (Dust)

Chair: A. Konare, Secretary: B. Marticorena

- 08:30 Pr.9B.1** S. Vingatarin, M. Legrand, B. Damiri, M.T. Nakes, J. Cuesta, D. Edouart, C. Flamant, S. Caquineau, P. Formenti, K. Desboeufs
Ground-based remote sensing in TIR of Saharan mineral dust at Tamanrasset in the framework of the African Monsoon Multidisciplinary Analysis field campaign
- 08:45 Pr.9B.2** P. Formenti, S. Chevaillier, S. Caquineau, N. Grand, K. Desboeufs, J.L. Rajot
Vertical and spatial distribution of mineral dust concentrations and properties over western Africa
- 09:00 Pr.9B.3** J.L. Rajot, S. Chevaillier, S. Caquineau, K. Desboeufs, P. Formenti, B. Marticorena, M. Sow, S. Alfaro
An overview of dust measurements performed during the rainy season special observation periods (SOP 1-2) at the Banizoumbou (Niger) supersite
- 09:15 Pr.9B.4** A. Sunnu, G.M. Afeti, F. Resch
Saharan dust particle size and concentration trends in Ghana
- 09:30 Pr.9B.5** B. Marticorena, B. Chatenet, J.L. Rajot, C. Schmechtig, A. Deroubaix
Temporal variability of mineral dust content over West Africa monitored by the AMMA Sahelian Dust Transect
- 09:45 Pr.9B.6** J. Banks, D. Grainger, M. Jukes
Modelling the Emission and Transport of Saharan Dust
- 10:00 Pr.9B.7** C. Kocha, J.P. Lafore, P. Tulet
Radiative effects of mineral dust on West African weather
- 10:15 Pr.9B.8** F. Solmon, M. Mallet, N. Elguindi, F. Giorgi, A. Zakey, A. Konaré
Dust aerosol impact on regional precipitation over western Africa, mechanisms and sensitivity to absorption properties
- 10.30-11.00 Break

Posters introduced on Wednesday, July 22, afternoon, in session 6B

- Po.9B.1** M. Legrand, M.T. Nakes, P. François
Upgraded version of the Infrared Difference Dust Index: application in the framework of AMMA

- Po.9B.2** D. Bou Karam, C. Flamant, J. Pelon, P. Tulet, E. Williams
Dust emissions and transport in the Intertropical Discontinuity region of the West African monsoon
- Po.9B.3** M. Sow, S.C. Alfaro, J.L. Rajot, B. Marticorena
Size resolved dust emission fluxes measured in Niger during 3 dust storms of the AMMA experiment
- Po.9B.4** O. Cavalieri, F. Cairo, G. Di Donfrancesco, F. Fierli, M. Snels, P. Formenti, B. Chatenet, B. Marticorena, J.L. Rajot, E. Orlandi
Lidar observation of aerosol variability in Western Africa
- Po.9B.5** O. Cavalieri, P. Formenti, F. Cairo, G. Di Donfrancesco, F. Fierli, M. Snels, B. Chatenet, B. Marticorena, J.L. Rajot, E. Orlandi
Optical properties of mineral dust from combined lidar and aircraft observations
- Po.9B.6** A. Klaver, P. Formenti, S. Chevaillier, S. Caquineau, P. Ausset, M. Maille, S. Osborne, J. Haywood
Experimental estimation of physico-chemical and optical properties of mineral dust from western Africa relevant to determine its direct radiative impact
- Po.9B.7** C. Lemaître, C. Flamant, J. Cuesta, J. Pelon, P. Chazette, J.C. Raut, P. Formenti
Dust aerosol radiative effect and forcing over West Africa: a case study from the AMMA SOP
- Po.9B.8** S. Crumeyrolle, P. Tulet, L. Gomes, A. Matsuki, A. Schwarzenboeck, P. Formenti, H. Venzac, T. Bourriane
Transport of dust particles from the Bodele region to the monsoon layer. Case study of the 9-14 june 2006 period
- Po.9B.9** S. Silue, A. Konaré, A. Diedhiou, V. Yoboue, P. Assamoi
Sahelian dust: responses to main modes of variability in Atlantic, Pacific and Indian Oceans and their impacts on the deep convection in the Sahel

S9C: Climate and human impacts on water resources and management strategies

Chair: H. Karambiri, Secretary: A. Ali

- 08:30 Pr.9C.1** O. Issoufou, S. Sambou, S. Tamba
Interaction between groundwater and surface water in coastal area: strategies definitions against flooding in the suburbs of Dakar
- 08:45 Pr.9C.2** A. Mariko, I.H. Dao, A. Konaré, A.B. Barry, F. Bamba, B.H. Bokar, D. Diallo
Climate change impact on Selingue reservoir water availability and its implication on hydropower, fish production and irrigation, Mali
- 09:00 Pr.9C.3** R. Ogouwale, C. Houssou
Climate change impacts on water resources in the high basin of Okpara in Benin (West Africa)
- 09:15 Pr.9C.4** S. Cissé, S. Sambou, P. Chambal Leitao
Application of SVAT model to the Faleme basin, main tributary of the Senegal River: Revealing of the impact of change on water resources
- 09:30 Pr.9C.5** E. Vissin, A.S. Agbidinokoun, C.S. Houssou, M. Boko
Hydropluviometric variability and vulnerability of the water resources in the valley of Oueme in Beterou
- 09:45 Pr.9C.6** A. Ali, S. Traore, A. Amani, T. Lebel
Recent patterns of the Sahelian rainfall and their impact on water resources

- 10:00 Pr.9C.7** B. Ibrahim, H. Karambiri, H. Yacouba, P. Diello, B. Barbier, G. Mahe, J.E. Paturel, J. Polcher
Flows forecasting on the Nakambé basin at Wayen with taking into account the interrelationship climate-man-environment
- 10:15 Pr.9C.8** J.R. Ndam Ngoupayou, J.L. Boeglin, J.P. Bedimo Bedimo, J.J. Braun, A. Amanabenogo, E. Binel
Influence of climatic variability and anthropic activities on the water resources of the Nyong forestry watershed in South Cameroon
- 10.30-11.00 Break

Chair: S. Becerra, Secretary: A. Niang-Fall

- 11.00-12.30 Parallel sessions continued
- 11:00 Pr.9C.9** S. Louvet, B. Barbier, J.E. Paturel, D. Ruelland, M. Diancoumba, P. Sibiry Traore, G. Mahe, P. Diello
Evolution of land-use under anthropogenic pressure in the Bani River basin
- 11:15 Pr.9C.10** A. Tossa, J.B. Vodounou, A. Zannou, E. Lawin, L. Sintondji, E. Vigan, E. Vissin, C. Hounsa
Agricultural water: which issues on the Oueme Basin?
- 11:30 Pr.9C.11** K.M. Kouakou, I. Mahamoudou, B. Mahamodou, A. Bonkougou, F. Severe, S. Cissé, K. Amaga, B. Barbier
The impact of the droughts of the 1970s and 1980s on farmers livelihood in the Inner Delta of Niger, in Mali
- 11:45 Pr.9C.12** C. Kane, J. Humbert, A. Kane
Modifications of the mouthpiece of the Senegal River: impacts on the vulnerability of the human societies
- 12:00 Pr.9C.13** A.H. Dia, S. Becerra, F. Gangneron
Facing climatic risks in the Sahel: Socio-institutional vulnerabilities and adaptation strategies
- 12:15 Pr.9C.14** A. Diendere, C. Kephaliacos, G. Nguyen
Water quality, risks and public policies: an economic analysis of collective action regarding the use of water in areas with intensive agriculture of Burkina Faso
- 12.30-14.00 Lunch

Posters introduced on Wednesday, July 22, afternoon, in session 6D

- Po.9C.1** S.H. Kambire, P. Zoungrana, J. Bazie
Methodology for developing a plan for integrated management of water resources in a semi-arid region of Burkina Faso: case of Yakouta watershed dam
- Po.9C.2** C.W. Biaou, C.G. Etene, S.H. Totin, C.S. Houssou
Rainfall-runoff event impacts on Bopa town site degradation in the side of river-lake Couffo-Aheme basin in Benin
- Po.9C.3** A.L. Ayeni
Global warning, climate change and sea level-rise on Nigeria's coastal resources

- Po.9C.4** A. Zannou, J.B. Vodounou, A. Lawin, A. Tossa, B. Kounouhewa, S. Galle, A. Gohoungossou, J.M. Cohard, C. Peugeot, L. Sintondji, C. Houssa, A. Ahossi, E. Alamou, P. Adjomayi, M. Agoua, D. Abdoulaye, M. Ahouansou, A. Akognongbe, M. Assaba, K. Assouma, F. Ayahounlin, W. Boko, M. Da-Silveira, G.K. N’Gobi, O. Mamadou, R. Oyeniran, J. Vodounnon, J. Sogba-Goh, G. Hounnou, L. Gnancadja, A. Dossou-Yovo, V. Amoussouvi, S. Vissoh, E. Vigan, A. Periault, M. Doukouré, A. Guyot, F. Lanhoussi, L. Seguis, E. Amoussou, E. Vissin
The OUEME-2025 project of FSP RIPIECSA: from targeted research on hydroclimatic functioning to application on integrated water resources management of Ouémé watershed in Benin; synthetic results and impacts for a sustainable development.
- Po.9C.5** C.R. Nguimalet
Mechanisms of water pollution from traditional well, climatic incidence and impacts with Bangui (Central African Republic)
- Po.9C.6** Y. Dieme, S. Sambou, A.K. Touré, A.M. Badji, E.N. Malanda-Niny
Man made structure and climate change effect on hydrological regime through a statistical approach: case of the Manantali Dam, upstream Senegal River
- Po.9C.7** A.K.S. Lasisi
Interrelationship of precipitation, sea level rise and flooding: evidence of vulnerability to climate change in Lagos, Nigeria
- Po.9C.8** C. Kane, A. Kane, J. Humbert
The new mouthpiece of the Senegal River
- Po.9C.9** C.G. Etene, M. Boko
Rainfall regime and the problem of drinking water supply in Allada
- Po.9C.10** F. Gangneron, S. Becerra, A.H. Dia
Multicriterion diversity of water resources in a sahelian municipality
- Po.9C.11** B. Donou, H. Totin, M. Boko
Impacts of climate constraints on surface water resources availability in Ouémé River basin (Republic of Benin)
- Po.9C.12** J. Giraldo, S. Garcia
Subpixels analysis model applied to dynamic flood monitoring in plain areas
- Po.9C.13** A. Ballo, C.H. Diakite, O.A. Diallo
Monitoring pounds in site the Niger interior delta using satellite imageries
- Po.9C.14** S. Odunuga, L. Oyebande, R. Folorunsho
Impact of global environmental change on the Niger Delta landforms
- Po.9C.15** M.D. Kone, Y. Bouvet, L. Bonou, J. Koulidiati, P. Joly, R. Yameogo
Etude de la pollution des eaux par les intrants agricoles dans la zone d'agriculture intensive de Boromo

S9D: Regional climate models

Chair: A. Diongue-Niang, Secretary: K. Cook

10.30-11.00

Break

11.00-12.30

Parallel sessions continued

11:00

Pr.9D.1

M. Issa Lele, P.J. Lamb, L.M. Leslie

WRF-ARW High Resolution Simulation of West African Monsoon during 2006 AMMA Enhanced Observation Period: Evolution and Diurnal Variations

- 11:15 Pr.9D.2** E. Flaounas, S. Bastin, S. Janicot
Evaluation of the impact of surface albedo and orography in the simulation of the monsoon onset in 2006
- 11:30 Pr.9D.3** L.A. Djiotang Tchotchou, F. Mkankam Kamga
Sensitivity of the simulated African Monsoons of summer 1993 to convective parameterization schemes in RegCM3
- 11:45 Pr.9D.4** M. Dominguez, M.A. Gaertner, T. Losada
Regional climate model simulations over West Africa: parameterization tests and analysis of land surface fields
- 12:00 Pr.9D.5** A. Kouassi, P. Assamoi, G. Schayes, A. Diawara, F. Yoroba, B. Kouassi
Modeling the effects of deforestation on the climate in West Africa with the Regional Atmospheric Model (MAR)
- 12:15 Pr.9D.6** P. Roucou, B. Fontaine, S. Sijikumar, M. Gaetani, N. Vigaud
The role of the eastern Mediterranean sea on the WAM in 2003 using the WRF regional model
- 12.30-14.00 Lunch

Posters introduced on Wednesday, July 22, afternoon, in Session S6A

- Po.9D.1** L.M. Druyan, J. Feng, K.H. Cook, Y. Xue, M. Fulakeza, S.M. Hagos, A. Konaré, W. Moufouma Okia, D.P. Rowell, E.K. Vizy
Four regional climate models simulate the West African monsoon: a WAMME initiative
- Po.9D.2** L.A. Djiotang Tchotchou, F. Mkankam Kamga
Sensitivity of West Africa regional climate simulation to domain size
- Po.9D.3** W. Moufouma-Okia, D.P. Rowell
Impact of soil moisture initialization on Regional Climate Model simulations of the West African monsoon
- Po.9D.4** I. Seidou Sanda, W. Moufouma-Okia, A. Konaré
Comparison of the PRECIS and RegCM Regional Climate Models simulations over West Africa
- Po.9D.5** E. Flaounas, S. Bastin, S. Janicot
On the role and impact of atmospheric perturbations to the West African monsoon onset of three consecutive years
- Po.9D.6** M. Camara, G. Jenkins, A. Konaré, A.T. Gaye
Impacts of dust on West African climate during 2005 and 2006
- Po.9D.7** B. Sylla, A.T. Gaye, J. Pal, G. Jenkins, X. Bi
High Resolution Simulations of Present-Day and Future West African Climate using a Regional Climate Model (RegCM3)
- Po.9D.8** N. Vigaud, P. Roucou, S. Sijikumar, S. Tyteca
Introduction to dynamical downscaling of ARPEGE data using WRF over West Africa
- Po.9D.9** E. Sambou, A. Diongue-Niang, I. Ndiaye
Validation of PRECIS regional climate model in Senegal
- Po.9D.10** A.E.A. Abdou
Sensitivity of climate models
- Po.9D.11** V. Kluepfel, A. Diongue-Niang, E. Sambou
WRF model simulations of a squall line observed during AMMA Campaign

Plenary session - Recommendations and round table for AMMA's future