

**Water in a Changing Climate
Melbourne Australia, 24-28 2009**

GEWEX/iLEAPS Joint Session Posters

Joint Session A: Land in the Climate System

Poster Session: Tuesday 25 August, 17.30-19.00

- JA-1 Large scale estimation of LAI and aboveground biomass using LiDAR and imaging spectroscopy data
Reza Amiri, J. Beringer, P. Isaac
- JA-2 Future ground water resources management for north eastern Nigeria
Andrew I. Ayeni
- JA-3 Desertification and its impacts on water resources, and agriculture in northern Nigeria
Andrew I. Ayeni
- JA-4 Importance of land-atmosphere coupling to European summertime heat waves at various temporal and spatial scales
Beryn Bisselink, G. Wang, R. de Jeu, A.J. Dolman
- JA-5 Monitoring soil and vegetation fluxes of carbon and water at the global scale: Towards a GMES service
Jean-Christophe Calvet, J.-F. Mahfouf, G. Balsamo, F. Chevallier, L. Kullmann, A. Horanyi, D. Papale, G. Seufert, H. The
- JA-6 On the coupling strength between the land surface and the atmosphere
Fei Chen, Y. Zhang
- JA-7 A climatic and bioclimatic assessment of the compact city: A case study of "Melbourne 2030" – Australia
Nadine D'Argent, J. Beringer, N. Tapper
- JA-8 A multi-model ensemble for characterization of land surface states over continental South America
Luis Gustavo de Goncalves, J. Mattos, D. Herdies, L. Sapucci, P. Espaciais
- JA-9 Diagnosis of land-atmosphere dynamics and the atmospheric water cycle through model empirical correction
Tim DelSole, P. Dirmeyer, M. Zhao
- JA-10 Role of drizzle precipitation in land surface-atmosphere interactions with a state-of-the-art AGCM
Marie-Estelle Demory, P.L. Vidale
- JA-11 Land-hydrology and NCEP seasonal forecasting
Michael Ek, Y. Xia, J. Meng, R. Yang, H. Wei
- JA-12 The impact of land use change on the climate in the Hadley centre model
Richard Ellis, E.M. Blyth
- JA-13 Quantifying land-atmosphere interaction through satellite remote sensing
Craig R. Ferguson, E.F. Wood
- JA-14 Contemporary climatic changes in North America and Northern Eurasia with foci on extreme events and transitions through environmentally and socio-economically significant thresholds
Pavel Ya. Groisman, R.W. Knight, O.N. Bulygina, V.N. Razuvaev, A.V. Meshcherskaya, S.V. Ivanov, Z.K. Akhmediyeva, N.A. Speranskaya, P. Zhai, K. Shein
- JA-15 Processes driving the coupled seasonal cycle of surface radiative fluxes and thermodynamics in a semi-arid Sahelian area
Françoise Guichard, L. Kergoat, E. Mougin, F. Timouk, P. Hiernaux
- JA-16 Convective representation and the soil moisture-precipitation feedback
Cathy Hohenegger, P. Brockhaus, C.S. Bretherton, C. Schär
- JA-17 World's tallest angiosperm acts as a carbon sink
Musa Kilinc, J. Beringer, L. Hutley, N. Tapper
- JA-18 The role of river storage in the seasonal variations of terrestrial water storage over global river basins
Hyungjun Kim, P.J.-F. Yeh, T. Oki, S. Kanae
- JA-19 Climate change and groundwater
Mobolaji Kolawole
- JA-20 Geoland2 - Towards an operational GMES land monitoring core service: Monitoring the land surface at global scale
Roselyne Lacaze, J.-C. Calvet, E. Bartholomé, O. Léo
- JA-21 Response of the West African monsoon to regional soil moisture anomalies in a GCM
Sally L. Lavender, C.M. Taylor
- JA-22 Partitioning of catchment water budget and its implications for ecosystem carbon exchanges
Dongho Lee, J. Kim, K.-S. Lee, S. Kim
- JA-23 The incorporation of surface litter layer in temperate deciduous forests into Climate Land Model (CLM)
Young-Hee Lee, H.-J. Lim
- JA-24 Climate change and North Queensland's tropical lowland rainforests
Michael Liddell, P. Franks, P. Nelson, C. Nichols
- JA-25 The role of groundwater in land hydrologic memory
Min-Hui Lo, J. Famiglietti
- JA-26 Impacts of historical land use changes between 1700 and 1850 on water cycle over Eurasia
Jun Matsumoto, R. Yamashima, K. Takata
- JA-27 Soil moisture effect on thermal infrared emissivity
Maria Mira, E. Valor, V. Caselles, E. Rubio, C. Coll, J.M. Galve, R. Niclòs, J.M. Sánchez, R. Boluda
- JA-28 Observations and numerical simulations of the cumulus-topped boundary layer over the Loess Plateau, China
Masanori Nishikawa, T. Hiyama

- JA-29 Micro climate change and risk to livelihood security in Western Himalaya
B.W. Pandey
- JA-30 Sulfate ground water pollution in central India
Madhavi Rajak, K.S. Patel
- JA-31 Long-term monitoring of carbon and water cycles in larch forest ecosystems in East Asia
Nobuko Saigusa, K. Takagi, T. Hirano
- JA-32 The impacts of landcover and atmospheric forcings on regional climate changes in Southeast Asia
Justin Sentian, R. MacKenzie, N. Hewitt
- JA-33 Effects of vegetation classification and plant growth scheme on atmospheric model simulation -- The BCC_AGCM Study
Xueli Shi, Y. Zhang, W. Li, T. Wu, F. Zhang
- JA-34 The importance of surface boundary forcing for simulated South American climate
Anna Amelia Sörensson, P. Samuelsson, U. Willén, C.G. Menéndez
- JA-35 The possible effects of irrigation on regional hydroclimate in Central California
Soroosh Sorooshian
- JA-36 The role of land cover in controlling temperature variability in Europe
Adriaan J. Teuling, S.I. Seneviratne
- JA-37 Anthropogenic disturbances of terrestrial carbon and water cycles in monsoon Asia: Toward coupling of human, ecosystem and climate
Hanqin Tian, M. Liu, W. Ren, C. Lu, H. Mao, G. Chen, X. Xu, J. Reilly, J. Melillo, H. Virji, R. Dickinson
- JA-38 Land-atmosphere feedbacks affecting the monsoon onset over the Indian sub-continent
Obbe Tuinenburg, C. Jacobs, R. Hutjes
- JA-39 Simulation of urban heat island distribution changes from land use change by using MM5 (Mesoscale Model version 5)
Laras Tursilowati
- JA-40 Observing intraseasonal changes of plant growth by ultrasonic distance sensor with surface heat budget
Kenichi Ueno, T. Kashiura, S. Haginoya
- JA-41 Impact of crop growth on the land surface exchange processes in Europe
Catherine Van den Hoof, P.L. Vidale
- JA-42 Land atmosphere coupling diagnosed from a regional climate model integration for West-Africa
Bart van den Hurk, E. van Meijgaard
- JA-43 Interactions between dry-air entrainment, surface evaporation and CBL development
Chiel C. van Heerwaarden, J.V.-G. de Arellano, A.F. Moene, A.A.M. Holtslag
- JA-44 Reconstruction of drought through multi-model ensemble simulated soil moisture over China during 1950-2000
Aihui Wang
- JA-45 Soil moisture-precipitation feedback inferred from satellite datasets
Guojie Wang, A.J. Dolman, R.A.M. de Jeu
- JA-46 Land cover change due to agriculture development over the Northeast China since mid-17th century and its climate implication
Wei-Chyung Wang, X. Zhang, X. Fang, Y. Ye, J. Zheng
- JA-47 Simulation of floodplain inundation dynamics with a high resolution global river routing model
Dai Yamazaki, T. Oki, S. Kanae
- JA-48 Modeling of N₂O and NO emissions from soils in terrestrial ecosystems
Xiaojuan Yang, A. Jain
- JA-49 Changes in the Asian monsoon climate during 1700-1850
Tetsuzo Yasunari, K. Takata, K. Saito
- JA-50 On the physics and dynamics of land-use impacts on the monsoon climate
Huqiang Zhang

Joint Session B: Aerosol, Cloud, Precipitation and Climate Interactions

Poster Session: Thursday 27 August, 17.30-19.00

- JB-1 The impact of the Mesoscale Convective Systems (MCS) on aerosol physical and chemical properties, focusing on hygroscopicity, during the AMMA campaign
Suzanne Crumeyrolle, L. Gomes, P. Tulet, A. Matsuki, A. Schwarzenboeck, H. Venzac, P. Laj, O. Laurent, G. Momboisse, T. Bourriane
- JB-2 The application of 1D-var Cloud Microphysics Data Assimilation System (CMDAS) for improving the cloud parameters retrievals over the medjerda basin by AMSR-E satellite data
Mirza Cyrus Raza, T. Koike, K. Yang, T. Graf
- JB-3 Impact of aerosols over the precipitation in INDO - Gangetic plains
Hashmi Fatima, H.C. Upadhaya, O.P. Sharma
- JB-4 Study on the impact of aerosols above stratocumulus on radiation fluxes based on passive and active satellite observations
Juergen Fischer, R. Preusker, A. Hasser, S. Kothe, J. Pelon, F. Ravetta
- JB-5 The effect of turbulence on cloud microstructure, precipitation formation and the organisation of stratocumulus and shallow cumulus convection
Charmaine Franklin
- JB-6 Impact of biomass burning aerosol on the monsoon circulation transition over Amazonia
Rong Fu, Y. Zhang, R. Dickinson

- JB-7 Boreal forests, aerosols, clouds and climate – closing the feedback loop
Laurens Ganzeveld, R. Janssen, P. Kabat
- JB-8 Detection of climate hazards (drought) over Indonesia based on the analysis of SST data anomaly over indo-pacific region
Eddy Hermawan
- JB-9 Impact of black carbon on regional climate over South-east Asia and Vietnam in numerical simulations
Ha Thi Minh Ho, V.T. Phan
- JB-10 An overview of field campaign for dust aerosol effect on semi-arid climate over Northwest China
Jianping Huang, J. Shi, W. Zhang, J. Bi, S.-C. Tsay, Z. Li, H. Chen, Q. Ji, X. Wang, Z. Huang, B. Zhang, G. Wang, L. Zhang
- JB-11 Aerosol effect on ice cloud particle size and associated precipitation: Analyses from multi-satellite observations
J.H. Jiang, H. Su, S.T. Massie
- JB-12 Interaction between aerosols and hydrological variables
Reza Khanbilvardi, S. Mahani, B.V. Hull
- JB-13 European integrated project on aerosol cloud climate and air quality interactions (EUCAARI) – major achievements during the first 24 months
Markku Kulmala, A. Asmi, H.K. Lappalainen, the EUCAARI team
- JB-14 Global oceanic precipitation and its relationship to water vapour
Christian Kummerow
- JB-15 Do changes in hourly precipitation extremes scale according to the Clausius-Clapeyron relation?
Geert Lenderink, E. van Meijgaard
- JB-16 Lung function in subjects exposed to crude oil spill into sea water
Sultan Ayoub Meo, M.M. Khan
- JB-17 A modelling case study of mixed phase clouds over the Southern Ocean and Tasmania
Anthony E. Morrison, S.T. Siems, M.J. Manton, A. Nazarov
- JB-18 Improved understanding of the influence of dust aerosols index on the climate system of Sudano-Sahel region in the face of the changing climate
Juddy N. Okpara, A.C. Anufom, I.D. Nnodu, J.E. Ukeje
- JB-19 Atmospheric precipitation change in the Low and High Tatras
Marian Ostrožlik
- JB-20 Determining sensitivity thresholds between aerosol size distribution and composition for cloud droplet parameters using a Markov Chain Monte Carlo based approach
Daniel Partridge, J. Vrugt, A. Ekman, P. Tunved, A. Sorooshian
- JB-21 Aerosol water soluble ionic pollution in central India
Khageshwar Singh Patel, S. Gupta, J.F. Aguilera, E. Y. Funes
- JB-22 Aerosol measurements over Northwest China during 2008 China-US joined dust field campaign
Jinsen Shi, J. Huang, W. Zhang, X. Wang, S.-C. Tsay, Z. Li, H. Chen, Q. Ji, J. Bi, B. Zhang, L. Zhang
- JB-23 Precipitation in warm clouds and its susceptibility to aerosol perturbations
Armin Sorooshian, G. Feingold, M.D. Lebsock, H. Jiang, G.L. Stephens
- JB-24 Ion chemistry and formation of molecular ionic species in aerosols in an urban area of central India
Santosh Kumar Verma, M.K. Deb
- JB-25 Deployment of an aerosol – meteorological observatory: Proof of concept for the calwater experiment
Christopher R. Williams, K.A. Prather, D. Rosenfeld, S.S. Cliff
- JB-26 Sensitivity analysis of a radiation fog event simulation with single-column model
Xiaojing Zhang, L. Musson-Genon, B. Carissimo, E. Dupont

Joint Session C: Future Generation of Integrated Observation and Modelling Systems

Poster Session: Thursday 27 August, 17.30-19.00

- JC-1 Integrated geoeological monitoring systems for migration processes and pollution of underground water ecosystem region
Khalid R. Al-Momani
- JC-2 Validation of four soil water infiltration models on the slopes and cropping systems on Elgon Montane ecosystem, Eastern Uganda
Yazidhi Bamutaze, M.M. Tenywa, M.J.G. Majaliwa
- JC-3 Assessing the uncertainty of land surface fluxes derived from operational analyses, and their comparison to remotely sensed estimates
Michael G. Bosilovich, David Mocko, Raghuvver Venukollu, Eric F Wood
- JC-4 Measuring vegetation structure with airborne laser altimetry
Ian Davenport, Jeff Walker, Robert Gurney
- JC-5 Development of a platform for regional coupled modelling (MORCE) for the assessment of regional impacts of climate change: focus on the Mediterranean area
Philippe Drobinski, S. Bastin, A. Anav, F. d'Andrea, T. Dubos, F. Hafid, L. Li, L. Menut, H. Omrani, K. Béranger, C. Lebeaupin, L. Mortier, N. Viovy, T. Salameh, S. Szopa
- JC-6 Past and future non-CO₂ emissions for IPCC AR5
Claire Granier, J.-F. Lamarque, T. Bond, V. Eyring, M. Kainuma, C. Liousse, A. Mieville, K. Rihai, M. Schultz, M. Schulz, S. Smith, D. Stevenson, J. Van Aardenne, D. Van Vuuren
- JC-7 Modeling evapotranspiration using solely remote sensing data
Nasreen Jahan, T.Y. Gan

- JC-8 An infrastructure for Measurement of the European Carbon Cycle (IMECC)
Ernest Koffi, P. Rayner, M. Logan, E. Nikinmaa, T. Warnecke, M.J. Sanz, R. Valentini, A. Jordan, M. Ramonet, T. Vesala, D. Papale, P. Ciais
- JC-9 An evaluation of community land model version 3.5 - dynamic global vegetation model over deciduous forest in Korea
Hee-Jeong Lim, Y.-H. Lee
- JC-10 GEIA: the Global Emissions Inventory Activity
Paulette Middleton, A. Guenther, C. Granier, A. Mieville
- JC-11 A proposed improvement to the SMOS soil moisture retrieval algorithm in the presence of strong land-surface heterogeneity
Rocco Panciera, J.P. Walker, E.J. Kim, J.D. Kalma
- JC-12 The stable isotope signature of water vapour near Sydney, Australia
Stephen D. Parkes, A.G. Williams, A. Element, M.F. McCabe, D.W.T. Griffith
- JC-13 Multi-scale hydrometeorological modeling, land data assimilation and parameter estimation with the land information system
Christa D. Peters-Lidard, S.V. Kumar, J.A. Santanello Jr., R.H. Reichle
- JC-14 Global high resolution mapping and assimilation of Soil Moisture Observations from SMAP
Rolf Reichle, W. Crow, R. Koster, J. Kimball, D. Entekhabi, J. Entin, T. Jackson, J. Johnson, K. Kellogg, K. McDonald, M. Moghaddam, S. Moran, E. Njoku, P. O'Neill, J.C. Shi, L. Tsang, J. Van Zyl
- JC-15 MoistureMap: Towards a soil moisture monitoring, prediction and reporting system for sustainable land and water management
Christoph Rüdiger, J. Walker, D. Barrett, R. Gurney, Y. Kerr, E. Kim, J. Le Marshall
- JC-16 The accuracy of global snow mass estimates from passive microwave measurements
Melody Sandells, I. Davenport, D. Putt, R. Gurney
- JC-17 Integrated land-ocean-atmosphere process studies over the Indian region
P. Sanjeeva Rao
- JC-18 SoilDTS: Using distributed temperature sensing to monitor large-scale variability in soil moisture
Susan Steele-Dunne, N. van de Giesen, M. Rutten, S. Tyler, C. Sayde, J. Selker
- JC-19 Using multi-scale modeling systems and satellite data to study the precipitation processes
Wei-Kuo Tao, J. Chern, S. Lamg, T. Matsui, B. Shen, X. Zeng, R. Shi
- JC-20 Introduction of SWING-2/CEOP-ICCS activity
Kei Yoshimura, C. Sturm, D. Noone
- JC-21 Towards the construction of the digital watershed and development of a distributed eco-hydrological
Wanchang Zhang, D. Zhang, J. Chen, Y. Liu