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

iLEAPS Session 1: Surface Exchange Processes from Leaf-Level to Earth System Scale
Poster Session: Tuesday 25 August, 17.30-19.00

i1-1 Microclimates and CO_2/heat fluxes in flooded and aerobic rice fields in the Philippines
Alberto Ma. Carmelita, R. Wassmann, T. Hirano, A. Miyata, A. Kumar, A. Padre, M. Amante

i1-2 222Rn and its usage for estimation of greenhouse gases emissions in the surface layer
Elena V. Berezina, N.F. Elansky, A.M. Obukhov

i1-3 Open-path instrument for eddy covariance measurements of methane flux
George Burba, T. Demetriades-Shah, L. Xu, T. Anderson, D. McDermitt, J. Schledlbauer, D. Zona, S. Oberbauer, W. Oechel

i1-4 Eddy covariance fluxes of carbon dioxide and water measured with new compact gas analyzer
George Burba, M. Furtaw, D. McDermitt, T. Demetriades-Shah

i1-5 Sensitivity of whole-plant water use to plant properties at elevated CO_2 and drought at the Hawkesbury forest experiment: a model-based analysis
Remko Duursma, B. Medlyn, C. Barton, M. Löw, D. Ellsworth, D. Tissue, D. Eamus, R. McMurtrie

i1-6 Fine resolution estimates of land surface energy and water fluxes from a land surface model
Phil P. Harris, C.M. Taylor

i1-7 Soil-Litter-Iso: a one-dimensional model for coupled transport of heat, water and stable isotobes in soil with a litter layer and root extraction
Vanessa Haverd, M. Cuntz

i1-8 Comparison of algorithms for determining remotely sensed evapotranspiration in northern Australian savannas
Carol Hensley, J. Beringer, P. Isaac

i1-9 Monitoring gross primary productivity, evapotranspiration, and plant water use efficiency using MODIS
Sinkyu Kang, K. Jang, N. Do

i1-10 Numerical study of surface water and energy exchanges in arid regions using detailed land surface model including fog deposition on vegetation
Genki Katata, H. Nagai

i1-11 Temperature dependence of day-time concentrations of biogenic volatile organic compounds in a boreal forest and their connection to new aerosol particle formation
Hanna K. Lappalainen, S. Sevanto, J. Bäck, J. Rinne, M. Kulmala

i1-12 Characteristics of canopy turbulence in complex terrain
In-Hye Lee, Young-Hee Lee

i1-13 Greenhouse gas dynamics of North Australian tropical savanna woodland: seasonality and fire
Stephen Livesley, S. Grover, L. Hutley, S. Arndt, P. Isaac, J. Beringer

i1-14 Relation of satellite image to forest soil conditions in permaforst area, Eastern Siberia
Supannika Potithep, R.e Suzuki

i1-15 Development of improved parameterizations of snow-atmosphere gas exchange processes in earth system models
Brian Seok, L. Ganzeveld, D. Helmig, R.E Honrath, L.J Kramer, C. Tor, B. Van Dam

i1-16 Drought responses of water and carbon cycles in a boreal forest
Sanna Sevanto, T. Hölttä, P. Kolari, S. Lainuainen, J. Korhonen, J. Pumpanen, E. Nikinmaa, T. Vesala

i1-17 Atmospheric CO_2 measurements in mountainous terrain to monitor regional fluxes and local disturbance
Britton Stephens, S.i Heck, D. Moore, A. Desai

i1-18 Monitoring stable water isotopes in the biosphere and atmosphere: high resolution field data
Carol Tadros, V. Haverd, D. Griffith, S. Parkes, A. Williams

i1-19 Long-term measurements of volatile organic compound emissions from a boreal forest
Risto Taipale, T.M. Ruuskanen, M.K. Kajos, J. Patokoski, H. Hakola, J. Rinne

i1-20 Spatial and temporal variations in trace gas exchange rates observed in a forest soil
Yoshiyuki Takahashi, N. Liang

i1-21 Unique observations of atmospheric turbulence associated with a low intensity savanna fire, Adelaide river, Australia
Nigel Tapper, M. Katurji, J. Beringer, L. Hutley

i1-22 Observations of CO_2 advection and subcanopy flow in two Amazon tropical rainforest: LBA-ECO project sites
Julio Tota, D.R. Fitzjarrald

i1-23 Representativeness of ground flux sites to regional scale airborne fluxes
Olaf S. Vellinga, R.W.A. Hutjes, J.A. Elbers

i1-24 The temperature and moisture sensitivities of soil carbon dioxide efflux altered by tillage in wheat field of loess plateau, China
Xiaoke Wang, H. Zhang, Z. Feng

i1-25 Evapotranspiration fluxes for three land cover classes in the tropical savannahs of the daily river region of Australia
Richard A. Weinmann, P. Isaac, L. Hutley, J. Beringer

i1-26 The simulation of water/energy fluxes for FLUXNET sites based on the concept of potential response characteristics: scale up from leaf to canopy
Ryuhei Yoshida, T. Yamazaki, T. Ohta

i1-27 The air mass exchange between the surface air and troposphere driven by the local circulation on the northern slope of Mt. Everest
Libo Zhou, H. Zou, S. Ma, J. Zhu, P. Li, C. Huo

iLEAPS Session 2: Progress in Land-Atmosphere Interactions and Climate Change
Poster Session: Thursday 27 August, 17.30-19.00

i2-1 Promoting sustainable human settlements and eco-city planning approach: Southeastern Anatolia region and Southeastern Anatolia project (GAP) in Turkey as a case study
Bulent Acma

i2-2 Global flood and landslide prediction using satellite observations—real-time and climate change scenario applications
Robert Adler, K. Yilmaz, Y. Hong, D.B. Kirschbaum, H. Pierce, F. Policelli

i2-3 Comparison of ceres toa shortwave fluxes to CCSM3 simulations with modis-derived land surface parameters
Valentine G. Anantharaj, U.S. Nair, P. Lawrence, T.N. Chase, S. Christopher, T. Jones

i2-4 Mixing in the lower atmosphere: An application of long-term tower-based radon gradient measurements
Scott Chambers, W. Zahorowski, A. Williams, A. Vermeulen, B. Verheggen, J. Crawford, O. Sisoutham

i2-5 Effect of coordinate rotation and averaging period on estimating surface heat and water vapor fluxes over mountainous terrain
Yi-Ying Chen, M.-H. Li

i2-6 Evaluation of the impact of surface albedo and orography in the simulation of the West African monsoon in 2006
Emmanouil Flaounas, S. Bastin, S. Janicot

i2-7 Land use change in North Australian savanna and the impact upon greenhouse gas exchange
Samantha Grover, L. Hutley, S. Livesley, S. Arndt, P. Isaac, J. Beringer

i2-8 The advances in observational study of atmospheric boundary layer in Taklimakan desert
Qing He, A. Mamtimin, S. Li, X. Liu, W. Huo, X. Yang

i2-9 The PILPS paradox: How average improvement hides lousy land-surfaces
Ann Henderson-Sellers, K. McGuffie

i2-10 Impact of the future radiation change on terrestrial carbon budget: A model simulation analysis
Akihiko Ito, D. G. Dye

i2-11 Increase in vegetation greenness and decrease in springtime warming over East Asia
Su-Jong Jeong, C.-H. Ho, J.-H. Jeong

i2-12 Variation of carbon dioxide and meteorological factors in a campus area
Kwang Ho Kim, B.S. Kim, M.S. Kim, B.H. Kwon, D.H. Kang

i2-13 The effect of climate change and elevated atmospheric CO_2 on the carbon dynamics of mountain ash (*Eucalyptus regnans*) forests
Kenichi Kurioka, J. Beringer, L. Hutley, A.D. McGuire, E.S. Euskirchen

i2-14 Carbon and water budgets of Australian Alpine grasslands
Ian McHugh, J. Beringer, N. Tapper, M. Adams

i2-15 Amplification and buffering of climate change: The succulent thicket of South Africa as a climate regulator
Kathleen Mennell, B. Scholes

i2-16 Summer monsoon rainfall trends and teleconnections with climatic indices over Andhra Pradesh, India – global warming
Kailasam Muni Krishna, S.R. Rao

i2-17 Time series comparisons of model and in-situ surface fields in the CEOP EOP3/4 data set
Lawrie Rikus

i2-18 How the methane balance changes if agricultural peatlands are transformed into wetland nature and how this transformation influences the total carbon balance
Arina P. Schrier-Uijl, P. Kroon, D. Hendriks, E.M. Veenendaal, P.A. Leffelaar, F. Berendse

i2-19 A pilot assessment of biological and geochemical components of ecosystem-scale CO_2 exchange
Penelope Serrano-Ortiz, M. Roland, F. Domingo, S. Sanchez-Moral, I. Janssens, A.S. Kowalski

i2-20 Geoinformatics based monitoring and predicting urban heat islands and promoting carbon resilience city: Case of Delhi
R.B. Singh, Manoj

i2-21 Potential of satellite remote sensing for vegetation dynamics study in relation to meteorological variability
Rikie Suzuki, K. Masuda, H. Sakai, A. Kondoh

i2-22 Possible land cover change feedbacks to albedo and net radiation in Siberia in a warming climate
Nadezda Tchebakova, E. Parfenova

i2-23 Triggering and amplification of heatwaves in Europe
Guojie Wang, Albertus J. Dolman

i2-24 Calibration of a global model of carbon, nitrogen and phosphorus cycle of terrestrial ecosystems
Yingping P. Wang, B. Pak, R.M. Law

i2-25 Variability of carbon, water and energy fluxes in the Australia's top end
Stephen A. Wood, J. Beringer, P. Isaac, L. Hutley

i2-26 On the relationship of light use efficiency and driving climatic factors in East Asia forests
Weixing Wu, G. Yu, S. Wang, L. Zhou, M. Zhang, Others

i2-27 Impacts of historical land use changes on the sesonal march of the Asian summer monsoon
Ryoji Yamashima, J. Matsumoto, K. Takata

i2-28 Effects of forest distribution change on regional climate and hydrology in China: A numerical simulation study
Yan Xiaodong, W. Qiong, X. Zhe

i2-29 Remote sensing of East Asian summer monsoon-driven terrestrial ecosystem in eastern China
Fengmei Yao, J. Zhang

i2-30 Evaluation of the dependence of vegetation on climate in an improved dynamic global vegetation model (CLM-DGVM)
Xiaodong Zeng

i2-31 Impact of biofiltration systems on water, mass and energy balances in urban areas
Alice Niculescu, A. Deletic, E. Daly, J Beringer

iLEAPS Session 3: The role of Atmospheric Boundary Layer Processes in Modulating Surface Exhanges
Poster Session: Thursday 27 August, 17.30-19.00

i3-1 Turbulent boundary layer dynamics: Intermittent or persistent turbulence?
Florence Bocquet, B. Balsley

i3-2 Mixing in the lower atmosphere: An application of long-term tower-based radon gradient measurements
Scott Chambers, W. Zahorowski, A. Williams, A. Vermeulen, B. Verheggen, J. Crawford

i3-3 Assessing model transport and boundary layer parameterizations in a climate model using atmospheric CO_2 concentrations
Katherine D. Corbin, R.M. Law

i3-4 The structure and energetic of the convective boundary layer over forest and pasture in the Amazon region
Gilberto Fisch, J. Avelar

i3-5 A modeling and observational framework for diagnosing local land-atmosphere coupling on diurnal time scales
Joseph A. Santanello Jr., C.D. Peters-Lidard, S. V. Kumar, C. Alonge, W.K. Tao

i3-6 Nocturnal boundary layer measurements during the Amazonian Aerosol Characterization Experiment (AMAZE)
Julio Tota, G. Fish, P. Artaxo, M.A. da Silva Dias, S. Martin

i3-7 Characteristics of canopy turbulence during the transition from convective to stable conditions
Eva van Gorsel, J.J. Finnigan, I.N. Harman, R. Leuning

ILEAPS Session 4: Aerosols from the Land Surface and their Interactions with the Climate System
Poster Session: Tuesday 25 August, 17.30-19.00

i4-1 Evolution of SOA formation and budget over the 21st century with implications for climate and air quality
Gerd A. Folberth, N.L. Abraham, W.J. Collins, C.E. Johnson, O. Morgenstern, F.M. O'Connor, P. Young

i4-2 Characterization of chloride deposition in a coastal hilly area and its implication for the land-surface effect on aerosol removal
Huade Guan, A. Love, C. Simmons, S. Priestley, Z. Ding, A. Kayaalp, C. Lenehan, G. Green

i4-3 Cloud condensation nuclei in pristine tropical rainforest air of Amazonia: Size resolved measurement and modelling of atmospheric aerosol composition and CCN activity
Sachin S. Gunthe, S.M. King, D. Rose, Q. Chen, P. Roldin, D.K. Farmer, J.L. Jimenez, P. Artaxo, M.O. Andreae, S.T. Martin, U. Pöschl

i4-4 Land use change supresses precipitation
Wolfgang Junkermann, J. Hacker, T. Lyons, U. Nair

i4-5 The effect of Kola peninsula air pollution to the air quality in eastern Lapland
Ella-Maria Kyrö, V. Vakkari, A. Virkkula, K. Lehtipalo, I. Riipinen, M. Kulmala

i4-6 Aerosol mass spectrometer with laser desorption and ionization in nanoparticle analysis
Totti Laitinen, K. Hartonen, M.-L. Riekkola, M. Kulmala, D. Worsnop

i4-7 The temporal-spatial distribution character and effect factors of TSP in Tarim Basin
Xin-chun Liu, Y. Zhong, M. Ali, Q. He, X. Liu

i4-8 Organic aerosols and their biogenic precursors at a southern Ontario mixed forest
Ralf Staebler, J. Liggio, S.-M. Li, K. Hayden, P. Brickell

i4-9 Cloud base aerosol and associated microphysical characteristics in southeast Queensland
Sarah Tessendorf, R. Bruintjes, D. Axisa, C. Arnold, J. Peter, L. Wilson, M. Manton, P. May, R. Stone, I. Craig, S. Piketh

i4-10 Optical properties of biogenic aerosols: large scale measurements in Amazonia
Kenia Wiedemann, P. Artaxo, L. Rizzo