Monash e-Research Centre

Thursday, 22 April 2010
e-Research Exemplars and Discussion Forum / eCoffee

Challenges for Climate Science
Presented by Dr Peter Isaac

Time: 10am-11am
Location: Room 135, Bldg 26, Clayton Campus
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For more information visit: www.monash.edu/eresearch

Dr Peter Isaac is a Research Fellow and part of the 'Monash Weather and Climate Group' (MWAC: http://www.monash.edu.au/research/climate/research@MWAC/micromet.html) and School of Geography & Environmental Science, Faculty of Arts, Monash University. Peter specialises in micrometeorology and numerical modelling of land surface and his research interest is in climate science. Peter is interested in the detection of changes in the environment and vegetation and its influence on surface energy and trace gas exchanges and ecosystem processes - especially in Australia's Northern Territory, tropical savanna region.

Micrometeorology covers a diverse array of subjects all focused on process occurring on small scales:

- Land-Atmosphere/Sea-Atmosphere Interactions
- Land Surface Modelling
- Air-Sea Interactions

Peter Isaac's recent publications include:

1. Carol Hensley, J. Beringer, P. Isaac (2009) *Comparison of remote sensing evapotranspiration algorithms in the northern territory savanna, Australia*. iLEAPS Session 1: Surface Exchange Processes from Leaf-Level to Earth System Scale. POSTER i1-8. iLEAPS 2nd Science Conference, Melbourne, Australia, 24-28 August 2009.
2. Reza Amiri, J. Beringer, P. Isaac (2009) *Large scale estimation of LAI and aboveground biomass using LiDAR and imaging spectroscopy data.* Joint Session A: Land in the Climate System . POSTER JA-1. iLEAPS 2nd Science Conference, Melbourne, Australia, 24-28 August 2009.
3. Richard A. Weinmann, P. Isaac, L. Hutley, J. Beringer, et al. (2009) *Surface energy balance from three land cover classes in the tropical savanna of the Daly River catchment, Northern Territory.* iLEAPS Session 1: Surface Exchange Processes from Leaf-Level to Earth System Scale. POSTER i1-25. iLEAPS 2nd Science Conference, Melbourne, Australia, 24-28 August 2009.

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