# MONDAY 9 NOVEMBER 2009

0900-0920    *Registration and coffee*

0920-0925    *Erland Källén (ECMWF)* ..................*Welcome and Opening*

## SESSION 1: LAND SURFACE MODELLING AND APPLICATIONS

0930-1000    *Gianpaolo Balsamo (ECMWF)* ..........*Land surface modelling in NWP at ECMWF*

1005-1035    *Philippe Peylin and Philippe Ciais (LSCE, France)  Land carbon and vegetation models at LSCE*

1040-1100    *Tea/coffee*

1100-1125    *Poster session I: Modelling*

 *Eleanor Blyth (CEH)* ...........................*Benchmarking the JULES model for assessment of performance at the global scale*

 *Imtiaz Dharssi (MetOffice)*..................*New soil physical properties implemented in the Unified Model*

 *Emmanuel Dutra (Univ Lisbon)* ..........*Snow modelling in EC-EARTH*

 *Michael Ek (NCEP/EMC)* ...................*Land-Hydrology Modeling at NCEP*

 *Young-Hee Lee (KNU Korea)* .............*The improvement of phenology module for summer green tree in CLM3.5-DGVM using MODIS LAI*

 *Aude Lemonsu (Météo-France)* ..........*TEB : an urban canopy model for meteorological applications and weather forecasting*

 *Nicola Loglisci (ARPA)* .......................*Soil freezing in a SVAT*

 *Gabriel Rooney (MetOffice)*................*Coupling the lake model FLAKE to CLM*

 *Anne Verhoef (Univ Reading)* .............*Land surface - atmosphere coupling strength in GCMs: the impact of soil physics*

 *Jean-Luc Widlowsky (JRC)* .................*Radiative transfer model intercomparsion for PILPS*

1125-1155    *Aaron Boone (Météo-France)* ............*The ALMIP experience: implications for land - atmosphere coupled systems*

1200-1230    *Richard Essery (Univ Edinburgh)* ......*The SNOW-MIP2 experience: implications for NWP snow schemes*

1230-1330    *Lunch*

| 1330-1400 | *Florian Pappenberger (ECMWF)* ......*River rooting models to support NWP verification* |
| 1405-1435 | *David Gochis (NCAR)* ........................*The role of terrestrial routing processes and shallow groundwater in land-atmosphere coupling* |
| 1440-1510 | *Sue Grimmond (King's College)* ........*The PILPS-Urban experience: implications for introducing a urban tile in NWP models* |
| 1515-1545 | *Martin Best (MetOffice)* .....................*Land surface models benchmarking: offline validation and verification in NWP* |
| 1545-1605 | *Tea/coffee* |

## SESSION 2: LAND SURFACE DATA ASSIMILATION

| 1605-1635 | *Patricia de Rosnay (ECMWF)* ............*Advances in land data assimilation at ECMWF* |
| 1640-1710 | *Jean-François Mahfouf (Météo-France)* *Advances in land data assimilation at Météo-France* |
| 1715-1745 | *Andrew Slater (NSIDC)* ......................*Snow data assimilation system with Kalman filtering* |
| 1745-1830 | *Cocktail party* |

# TUESDAY 10 NOVEMBER 2009

| 0910-0940 | *Rolf Reichle (NASA)* ...........................*Advances in land data assimilation at NASA* |
| 0945-1015 | *Stéphane Bélair (CMC)* ......................*Advances in land data assimilation at Environment Canada* |
| 1015-1035 | *Tea/coffee* |
| 1035-1100 | *Poster session II – Data Assimilation and Systems* |
| | *Filipe Aires (CNRS/IPSL)....................A global analysis of the soil moisture using model, multi-spectral satellite data, and in situ observations* |
| | *Rasmus Houborg (NASA GSFC).........The Global Land Data Assimilation System* |
| | *Carlos Jimenez (LSCE) .......................A comparison of land surface temperatures to observations* |
| | *Sujay Kumar (NASA GSFC)................Use of inverse modeling and posterior inference tools for land surface modeling and data assimilation within the NASA Land Information System (LIS)* |
| | *Sujay Kumar (NASA GSFC)...............Role of subsurface soil moisture physics in the assimilation of surface soil moisture observations* |

*Joaquín Muñoz Sabater (ECMWF) .....ECMWF contribution to SMOS*

*Catherine Ottlé and C. Bacour (LSCE)   Coupled assimilation of in situ flux measurements and satellite FAPAR time series within the Orchidee biosphere model: constraints and potentials*

*Sam Pullen (Met Office) ......................Using satellite-derived snow cover data to implement a snow analysis in the Met Office global NWP model*

*Marc Ridler (U Copenhagen)..............Data Assimilation in a soil-vegetation-atmosphere transfer model using a filtering framework*

*Joe Santanello (NASA GSFC):  ...........Land-atmosphere coupling studies using the LIS-WRF system*

*Linying Tong and Stephane Belair (Environment Canada): Vancouver 2010 Winter Olympics Land Surface Forecast System*

1100-1130   *Souhail Boussetta (ECMWF) and Toshio Koike (U Tokyo) Development of LDAS Coupled with Atmospheric Models by CEOP*


## SESSION 3: OBSERVATIONS FOR TERRESTRIAL SURFACES

1135-1205   *Matthias Drusch  and Mark Drinkwater (ESA)  ESA's Living Planet Programme and Earth Explorer 7 Candidates*

1210-1240   *Pedro Viterbo (IM)  .............................Land surface observations: requirements for operational NWP in data assimilation and verification*

1240-1340   *Lunch*

1340-1410   *Matthias Drusch (ESA) ........................Satellite data products suitable for land surface analyses*

1415-1445   *Yann Kerr (CESBIO) ...........................The SMOS satellite mission*

1450-1520   *Debbie Clifford (NCEO/U Reading)  ..Snow products for assimilation and verification*

1520-1540   *Tea/coffee*

1540-1605   *Poster session II - Data Assimilation and Systems (continued)*

1605-1635   *Carlos Jimenez (LERMA) and Catherine Prigent (LSCE) The LANDFLUX project*

1640-1710   *Nuno Carvalhais and Markus Reichstein (MPI-BGC Jena)  Use of eddy covariance data from FLUXNET for parameter estimation and model evaluation*

# WEDNESDAY 11 NOVEMBER 2009

## SESSION 4: CONTRIBUTION OF LAND SURFACE TO PREDICTABILITY

| | | |
|---|---|---|
| 0910-0940 | *Antje Weisheimer (ECMWF)* ............. | *The contribution of the land surface to predictability in the ECMWF seasonal prediction system: The European summer 2003 case* |
| 0945-1015 | *Randy Koster (GSFC)* ........................ | *The GLACE-2 experiment* |
| 1015-1035 | *Tea/coffee* | |
| 1035-1100 | *Poster session III – Predictability and carbon* | |
| | *Jean-Christophe Calvet (CNRM)* ....... | *Monitoring soil and vegetation fluxes of carbon and water at the global scale: the land carbon core information service of geoland2* |
| | *Sébastien Lafont (CNRM)* ................... | *A 13-y high-resolution climatology of biophysical variables over France with the ISBA-A-gs model* |
| | *Ryan Teuling (ETH)* ........................... | *Brightening and Dimming?* |
| | *Bart van den Hurk (KNMI)* ................ | *GLACE2 analyses for Europe* |
| 1100-1130 | *Bart van den Hurk (KNMI)* ............... | *The EC-Earth modelling challenges* |
| 1135-1205 | *Eric Jäger and Sonia Seneviratne (ETH)* | *Land surface predictability in Europe: Extremes and trends* |
| 1210-1240 | *Hervé Douville (Météo-France)* ........ | *Importance of snow initial condition in seasonal forecasting* |
| 1245-1315 | *Yvan Orsolini (NILU)* ........................ | *Impact of snow cover on the Northern Hemisphere winter circulation* |
| 1315-1415 | *Lunch* | |
| 1415-1455 | Visit to the ECMWF computing facilities (optional) | |
| 1500-1510 | Introduction to the Working Groups | |
| 1500-1730 | Working group discussions | |
| 1830 | *Dinner* | |

## THURSDAY 12 NOVEMBER 2009

| | |
|---|---|
| 0910-1215 | Working group discussions and drafting of recommendations |
| 1215-1345 | *Lunch* |
| 1345-1530 | Plenary Session |
| 1530 | Closure of the Workshop |