

## Annex II: Workshop Programme

### Workshop on Diurnal cycles and the stable boundary layer 7-10 November 2011

*Co-sponsored by ECMWF and WCRP*

#### Monday 7 November 2011

10:00-1030 *Registration and coffee*

#### Welcome and opening

1030-1040 Erland Källén  
(Director of Research, ECMWF) Welcome

1040-1100 Ghassem Asrar  
(Director WCRP) WCRP Plans and Priorities: Way forward

#### Session 1: Transport processes

1100-1130 Anton Beljaars  
(ECMWF) Stable boundary large diffusion in large scale models

1130-1200 Bert Holtslag  
(Wageningen Univ.) Overview of 10 years of GABLS

1200-1330 *Lunch*

1330-1400 Gert-Jan Steeneveld  
(Wageningen Univ.) Stable boundary layer issues

1400-1430 Joan Cuxart  
(Univ. Balearic Islands) Complex terrain effects

1430-1500 *Tea/Coffee*

1500-1530 John Edwards  
(UK Met Office) Radiation and turbulence in the SBL

1530-1600 Carmen Nappo  
(Oak Ridge/NOAA) Gravity waves in stratified boundary layers

1600-1830 *Cocktails and poster viewing* *Reception Area*

#### Tuesday 8 November 2011

0915-0945 Thorsten Mauritsen  
(MPI) Views on advancing the representation of the stable boundary layer in large-scale models

0945-1015 Sukante Basu  
(North Carolina State Univ.) LES of SBL's

1015-1045 Bob Beare  
(Univ Exeter) Modelling convective boundary layers in the terra-incognita

1045-1115 *Tea/Coffee*

1115-1145 Fred Bosveld  
(KNMI) GABLS-3, what did we learn?

#### Session 2: Impact in large scale models

1145-1215 Gunilla Svensson  
(Stockholm Univ.) Diurnal cycles in the NCAR climate model

## ANNEX II - WORKSHOP PROGRAMME

1215-1330	<i>Lunch</i>	
1330-1400	Dick McNider (Univ. Alabama)	Response and sensitivity of the SNBL to added radiative forcing
1400-1430	Irina Sandu (ECMWF)	Experience with boundary layer formulations in the ECMWF model
1430-1500	Eric Bazile (Météo France)	Experience with TKE at Météo France
1500-1530	Adrian Lock (UK Met Office)	SBL in the Met Office model
1530-1600	<i>Tea/Coffee</i>	
1600-1630	Dmitrii Mironov (DWD) and Peter Sullivan (NCAR)	Mixing in the SBL over temperature-heterogeneous surface: LES findings and some parameterisation ideas
1630-1700	Phil Anderson (BAS)	Coherent structures in the stable boundary layer: climatology and conceptual models of micro-fronts and solitary-trains
1700-1730	Wayne Angevine (Colorado Univ.)	Stable and transitional boundary layers in WRF

### Wednesday 9 November 2011

#### Session 3: Coupling to the surface

0915-0945	Michael Tjernström (Stockholm Univ.)	High latitude campaigns and model results (effects of ice and snow)
0945-1015	Rob Stoll (Univ.Utah)	Impact of surface heterogeneity on SBL processes
1015-1045	Bas van der Wiel (Eindhoven Univ.)	Simplified SBL models: what can we learn?
1045-1115	<i>Tea/Coffee</i>	
1115-1145	Isabel Trigo (IM)	Aerodynamic coupling to the surface and surface temperature observations
1145-1215	Martin Best (Met Office)	Thermal coupling between boundary layer and land surface: The GLASS perspective
1215-1245	Anne Verhoef (Reading Univ.)	The role of skin layer heat transfer in the surface energy balance
1245-1400	<i>Lunch</i>	
1400-1410	Anton Beljaars (ECMWF)	Introduction to the Working Groups
1410-1700	<i>Working Group discussions</i>	
1930--	<i>Workshop dinner</i>	

### Thursday 10 November 2011

0915-1215	Working Group discussions and drafting of recommendations	
1215-1345	<i>Lunch</i>	
1345-1530	Plenary Session	
1530	<i>Closure</i>	