

PROGRAM OF THE JOINT DICE AND GABLS4 WORKSHOP

Wednesday 20 May

9:00 registration

9:15 Welcome from P. Bougeault

9:25 Practical aspects: E. Bazile

9:30 – 12:30 **GABLS4 Chair : G. Svensson**

9:30 – 9:50 B. Holtslag : Introduction and overview of GABLS

9:50 – 10:10 E. Bazile : General objectives and description of GABLS4

10:10 – 10:30 : C. Genthon Boundary layer profile observing system at Dome C

10:30 – 11:00 : Snow Surface Scheme intercomparison : P. Le Moigne

11:00 – 11:30 : Break

11:30 – 12:00 : Single Column Model intercomparison : E. Bazile

12:00 – 12:30 : Large Eddy Simulations intercomparison : F. Couvreux

12:30 – 14:00 : Lunch break

14:00 – 18:00 : **DICE : Chair : A. Lock and M. Best**

14:00 – 15:00 : M. Best and A. Lock : Synthesis of intercomparison results

15:00 – 15:20 : F. Cheruy : Key land surface coupling processes over semi-arid region analysed with the coupled DICE case.

15:20 – 15:40 : M. A. Jimenez : The land/atmosphere coupling in the MesoNH model

15:40 – 16:10 : Coffee break

16:10 -16:30 : W. Angevine : Different Stability Functions and DICE

16:30 – 17:30 : DICE next step discussion

Thursday 21 May : Chair: B. Holtslag

9:00 - 9:20 : F. Pithan : Why models fail or succeed in representing the Arctic winter boundary layer – a GASS model intercomparison

9:20 – 9:40 : Eun-Hee Lee : Development of PBL parameterization at KIAPS

9:40 – 10:00 : G. Brethouwer : Qualitative study of transitions in the atmospheric boundary layer using explicit algebraic turbulence models

10:00 – 10:20 : B.V.d. Wiel : The nighttime atmosphere: turbulence or no turbulence?

10:20 – 10:40 : Break

10:40 – 11:50 : **Observations Chair: C. Genthon & G. Canut**

10:40 – 10:55 : W. Maurel : Turbulent flux computation by eddy-correlation method with sonic anemometer measurements

10:55 – 11:10 : E. Vignon : Roughness length and surface turbulent fluxes at Dome C

11:10 – 11:30 : H. Barral : A typical December day at Dome C ?

11:30 – 12:00 ; F. Bosveld : On intercomparison of SCM models and evaluation with observations - The GABLS3 Case.

12:00 – 12:30 : Discussion on observation (uncertainties), model evaluation and diagnostic

12:30 – 14:00 : *Lunch break*

14:00 – 16:00 : ***Sensitivity tests in GABLS4 : Chair E. Bazile & F. Couvreur***

14:00 – 14:30 : I. Sandu : Sources of error for IFS in the GABLS4 simulations

14:30 – 15:00 : W. Angevine and D. Veron : WRF experiments

15:00 – 15:30 : Discussion on roughness length z_{0m} , z_{0t} ...

15:30 – 16:00 : Coffee Break

16:00 – 16:30 : (Visio) A. Zadra : Sensitivity test with the CMC model

16:30 – 17:30 : Discussion on sensitivity experiments and next step for stage 0-1-2

20:00 Social Dinner “ La Cendrée” 11 rue des Tourneurs Toulouse

Friday 22 May:

9:30 – 12:30 Chair : P. Le Moigne

9:30 – 10:10 : “GABLS4 ideal” or Stage 3: E. Bazile and F. Couvreur : 1D and LES

10:10 - 10:30: Bart van Stratum : A brief introduction to MicroHH, and its first LES results for GABLS4

10:30 – 10:50: Coffee break

10:50 – 12:30: Technical issues and next step for GABLS4

12:30 – 14:00 : Lunch Break

14:00 – 15:00 : E. Bazile, P. Le Moigne, F. Couvreur, C. Genthon : General synthesis

Participants:

1. Eric Bazile (CNRM-GAME)
2. Fleur Couvreur (CNRM-GAME)
3. Patrick Le Moigne (CNRM-GAME)
4. Wayne Angevine (CIRES / NOAA ESRL)
5. Geert Brethouwer (KTH, Stockholm)
6. Felix Pithan (University of Reading)
7. Joan Cuxart (University of the Balearic Islands (Mallorca))
8. Christophe Genthon (CNRS/LGGE)
9. Etienne Vignon (CNRS/LGGE)
10. Joseph Santanello (NASA-GSFC) (only Wednesday)
11. Gunilla Svensson (Stockholm University, Department of Meteorology)
12. Dana Veron (University of Delaware,US)
13. William Maurel (CNRM-GAME)
14. Irina Sandu (ECMWF)
15. Isabelle Beau (CNRM-GAME)
16. Adrian Lock (Met Office)
17. Bert Holtslag (Wageningen University, Meteorology and Air Quality)
18. Maria A. Jimenez (Institut Mediterrani d'Estudis Avançats (IMEDEA))
19. Gert-Jan Steeneveld (Wageningen University, Meteorology and Air Quality)
20. Guylaine Canut (CNRM-GAME)
21. Marie-Pierre Lefebvre (Meteo-France/LMD)
22. John M. Edwards (Met Office)
23. Reinder Ronda (Wageningen University)
24. Gert-Jan Duine (Laboratoire d'Aérodynamique, Toulouse / LMTE, CEA Cadarache)
25. Frederique Cheruy (LMD/IPSL/CNRS)
26. Eun-Hee Lee (KIAPS)
27. Martin Best (Met Office)
28. Fred Bosveld (KNMI)
29. Hélène Barral (CNRS/LTHE)
30. Jean-Baptiste Madeleine (LMD)
31. Bas Van de Wiel (Delft University/Eindhoven university)
32. Bart van Stratum (Max Planck Institute for Meteorology)
33. Olivier Traullé (DSO/DOA/IED, Meteo-France)
34. Michael Ek (NOAA)
35. Ayrton Zadra (Visio) (CMC)