

Workshop 2-3 February 2015 Barcelona

Location: Campus North UPC

Monday morning

9h15 David Pino: Welcoming

9h30 Marie Lothon: Introduction

9h45 Maria Antonia:

Downslope winds analysis based on a Meso-NH simulation

10h15 Oscar Hartogensis

(1) The area-averaged flux task. Some results on the IOP's chosen for the model intercomparison (25/6 and 1/7)

(2) Presentation of MSc thesis work by Lisanne Nauta on shallow drainage flows.

10h45 BREAK

11h15 Erik Nilsson

Turbulent Kinetic Energy budget in the surface layer

11h45 Guylaine Canut

Observation of turbulent kinetic energy based on BLLAST observations and a field campaign in Bourges, France.

12h15 Fleur Couvreux

Representation of the afternoon transition in Numerical Weather Prediction models: evaluation with BLLAST data

Lunch & discussions 12h45 – 14h30

Monday afternoon

14h30 Clara Darbieu

Evolution of the vertical structure of turbulence during the late afternoon transition

15h00 David Pino

Minimum lifted temperature

15h30 Antonia Kempf

Simulation of the diurnal cycle with the BLLAST dataset and the LES model EULAG

16h00 Omar El Guernaoui

A new LES model for BLLAST. Understanding the influence of surface heterogeneity on the TKE decay during the late afternoon transition

16h30 Mariano Sastre Marugan:

A comparison between atmospheric boundary layer evening transitions at two experimental sites

17h00: Special visit of Barcelona

20h30: diner together in Barcelona

Tuesday morning

09h00 Carlos Roman:

A wave event on 2 July

9h30 Derek Jensen:

Counter-gradient flux during MATTERHORN and BLLAST

10h00 Daniel Martinez:

Some methodological developments for estimating surface flux and analysis of the MOST during BLLAST

10h30 Joan Cuxart:

Small scale surface temperature heterogeneities: effect on the Surface Energy budget

11h00 BREAK

11h30 David Tupman

Current research of the Environmental Physics group of the University of Tuebingen: Boundary layer measurements with Unmanned Aerial Vehicles (UAVs), and the Ammer valley ground station network

12h margin on presentation timing, and start of discussions

Lunch & discussions 12h30 – 14h30

Tuesday afternoon

Discussions:

- Around Turbulent kinetic energy:
 - Comparison of the different measurements and estimations
 - Estimation of the budget terms: what can be done from observation ? From modelling ? What do the model prognostic equation of TKE assume and mean?
 - Comparison between models and observation: Meaning and feasibility
 - Discussion around the mesoscale model intercomparison
 - Review of the set of LES models used and associated studies going on BLLAST
 - Around a conceptual description of the LAT ? Or what remains to address for us to draw it ?
 - What are the important analyses that are not done yet, but should be done... ?
 - Information for newbies about the field experiment and the database

BREAK (around 15h00 or 16h00)

Other topics

- BLLAST perspectives.
- Data base
- Web
- ACP special issue
- Upcoming conferences
- Next workshop

End of workshop (around 17h00)