

## **PBL-PMES: 1<sup>st</sup> Steering Group Meeting, Friday, 06.02.09, 10:00-12:00**

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### **Agenda**

- 1) our 1<sup>st</sup> organizational steps
- 1) responsibilities of the key persons
- 2) determination of the personnel involved in each task (if possible, identifying who will do concrete works within concrete tasks)
- 3) new employees (our project budget)
- 4) start dates and concrete plans for each task in 2009 (if possible, identifying mini-milestones)
- 5) cooperation between WPs
- 6) collaboration with external groups

## **THE MEETING MEMO**

(prepared by Julius Vira ([julius.vira@fmi.fi](mailto:julius.vira@fmi.fi), 1929-55-29))

**Present:** Sergej Zilitinkevich, Carl Fortelius, Sylvain Joffre, Heikki Järvinen, Ari Karppinen, Julius Vira

### **1. Organizational issues**

#### **1.1 Project website**

The website should include

- description of the work
- info about members of the steering group including their affiliation, areas of expertise and role in the project, also CVs and lists of publications

Sergej proposed a logo for the project

- Ari's group will handle the site

#### **1.2 Purchase of equipment**

New computers will be needed for newly employed people, and for Sergej

#### **1.3 Regular meetings or seminars**

Seminars presenting the project and its current activities will be arranged once in 1-2 months. The first ones will include presentations of each WP with separate seminars on different aspects of modelling (NPW, AQ, climate)

#### **1.4 New personnel**

Rostislav Kouznetsov will be employed at FMI (most probably by MET department)

## 2. Work in 2009

It is decided to make the initial plans for the 1<sup>st</sup> 18 months (the required reporting interval)

- Each WP leader will prepare a table including specific tasks, months and costs – by the next meeting

### 2.1 WP1: PBL physics and turbulence closure (Sergej)

(i) The stable PBL height equation and the surface flux algorithm (including the cross isobaric angle) in terms of external parameters

- Waiting to experimental validation, paper almost ready

(iv) TTE turbulence closure – a version suitable for practical use

- Ivan and Roux – comparison with observational data

### 2.2 WP 2: Remote sensing observations of the PBL height (Ari)

Sergej stressed the importance of boundary layer height as a monitored quantity

- Antti Hellsten will be doing real time LES in connection with this and other projects

### 2.3 WP 3: PBL & turbulence schemes in NWP, AQ and climate models (Carl, Ari, Heikki)

It is proposed to write reviews of current unsolved problems possible caused by insufficiently advanced PBL physics in of atmospheric models: NWP, AQ, climate

Heikki:

Unless a new employee is hired, the work will performed be mainly through collaboration with MPI

Carl:

(i) Carl will implement and test the stability-dependent roughness length and displacement height in 1-D (ready in June 2009) and 3-D NWP-models (ready in December 2009) – Tasks 3.1 and 3.2

(ii) Irene Suomi has started working in WP3.3 (wind energy) with focus on wind gustiness