

## **Minutes of the ACTRIS-2 JRA2 3<sup>rd</sup> WP Webex meeting**

21st September, 2017 at 11-12 (GMT +1)

### **Present:**

Leena Järvi, UHEL  
Joonas Enroth, UHEL  
Aleid Oosterwijk, TNO  
Ewan O'Connor, FMI  
Vladimir Zdimal, CHMI  
John Backman, FMI  
Juan Andrés Casquero-Vera, Granada  
Ronny Engelmann, TROPOS  
Holger Baars, TROPOS

### **Agenda**

1. Update on the measurement campaign at the Kosetice site
2. Status of the comparison of in-situ and ground-based remote-sensing techniques (Milestone 12.2)
3. How to proceed with D12.3 "Documentation on the tower based measurements"
4. Status of the flux post-processing paper
5. Other possible topics

### **Minutes**

Meeting opened at 11:05 am (GMT+1) by Leena Järvi.

#### **1. Update on the measurement campaign at the Kosetice site**

Ewan: Yesterday Doppler lidar packed, happy with the campaign. In addition to the continuous eddy covariance measurements of particles, Ad-hoc particle measurements were installed in the tower and is still there. Sun photometer did not work, otherwise all other measurements should have been fine.

Ronny/Holger: Happy with the results. Will continue measurements until the end of October. Will try to find a good day from the data, in order to do measurement comparison with Ewan's data. Campaign also provided nice data on smoke events, although outside of the aim of the campaign still valuable data for ACTRIS produced.

Vladimir: Ground and tower systems are running. One nephelometer was away for 5 days. Eddy covariance running at 80 m worked well. SMPS and APS running, although there are gaps in the APS data due to storm damages. EC system at 250 m had issues with the CPC provided by FMI. Worked on arrival, but not in the tower. Tried to fix the CPC with consultation from TSI, but problems remain, resulting in very little data from the higher 250 m platform. Problematic as the

higher station is the one what is comparable with the lidar data, but the lower one at 80 m is too low for this.

Ewan: CPC was working before it left Helsinki. CPC to be sent to Helsinki so it can be fixed.

Ronny/Holger: We could organize a smaller meeting on how to proceed with combining of the aerosol and Doppler LIDAR and in-situ observations.

Ewan: only after few weeks I get my hands on the Doppler LIDAR data to see how it looks like.

Leena: I will create a doodle poll for smaller meeting somewhere at the end of October. UHEL can provide help with the usage of EddyUH for the in-situ data analysis. Before the actual meeting Vladimir could send some lower EC data for period when both lidars were running, so the in-situ fluxes could be calculated in time for the meeting.

## **2. Status of the comparison of in-situ and ground-based remote-sensing techniques (M12.2)**

For Kosetice see point 1.

### **AGORA:**

Juan: The AMAPOLA and urban campaigns were performed, and data processing is ongoing. Some problems with the LIDAR during the latter campaign.

Leena: Milestone wise we are as doing OK, as data analysis is ongoing

Ewan: Antti Manninen has almost ready data processing tool-box, internal testing ok, external testing starting now with the AGORA data.

### **Pallas:**

Ewan: Data from last year exist, but difficult to analyze due to low concentrations. New campaign will start after new LIDAR arrives and is installed. However, this provides nice example of conditions with very low concentrations.

Leena: Milestone wise this is ok, as the work has been done. Is there information on status of Hyytiälä, new campaigns or permanent measurements?

Ewan: Data exists from Hyytiälä, but status unknown. Ewan/Leena will ask Tuukka about the situation.

### **Cabauw:**

Tower based measurements done. Status on aerosol/Doppler LIDAR unknown. Aleid will get Bas to give an update on Cabauw measurements.

Beginning of October, Leena will circulate 1<sup>st</sup> draft of the next milestone document based on this meeting and info from Bas about Cabauw situation. All can edit after this.

### **3. How to proceed with D12.3 "Documentation on the tower based measurements"**

Deadline for the deliverable D12.3 is coming up. Leena can take lead, but everyone needs to send a description of their setups and some preliminary data plots. Deadline for this information is 18<sup>th</sup> of October. The description should be max. 1 page with the figure of setup. Also some preliminary data plots would be good. Combining data from all six sites will be left for later. Based on the input, Leena will create one document on the measurements and circulate it among the people before the actual deadline.

### **4. Status of the flux post-processing paper**

**Background:** A two-day workshop was held in Hyytiälä about in-situ aerosol post processing. There a decision was made to write a joint paper on the post-processing of in-situ aerosol flux measurement data. For the purposes of comparing the influence of post processing on the results, the attendees will all post process three short datasets from different locations (Helsinki, Hyytiälä and Auchencorth Moss). Eiko has the lead in writing the paper.

There was a deadline for everyone to send the 1<sup>st</sup> drafts of their respective chapters and post processed data by the end of September. This deadline will be now postponed to somewhere in November.

Juan yet to receive the data from Eiko. Vladimir proposed using the Kosetice data from the 80 m tower. They have data, but have yet to analyze any EC data.

Leena: We might then use the data from Kosetice, so we get a good comparison on how to do it, and Kosetice gets experience

Leena will send email in October on the topic, after which we will see if we will use either 3 or 2 datasets (Helsinki, Hyytiälä, originally Auchencorth Moss/now maybe Kosetice). Leena will ask Eiko about the possible change of the site.

### **5. Other possible topics**

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Ending words, and closure of meeting.

Meeting adjourned at 11:42 am (GMT+1).