

Report on the outcomes of a Short-Term Scientific Mission¹

Action number: CA20108

Grantee name: Levent SAYLAN

Details of the STSM

Title: "Sharing knowledge about the micrometeorological studies"

Start and end date: 19/09/2022 to 24/09/2022

Description of the work carried out during the STSM

During my STSM in Helsinki, Finland, I was with Prof. Dr. Timo VESALA, Institute for Atmospheric and Earth System Research (INAR), Faculty of Science, University of Helsinki. During my STSM, I have visited Institute for Atmospheric and Earth System Research (INAR) in the University of Helsinki and met with Prof. Dr. Timo VESALA at INAR. He introduced me to his colleagues in INAR one by one. Colleagues and Dr. VESALA gave me information about the research done at INAR in the field of micrometeorology.

At INAR, I met with micrometeorology researchers working on urban, agricultural areas, forests and peatland, and they explained me about their research and we exchanged ideas. A researcher showed me the measurements they made in the urban micrometeorology field near INAR. Another researcher gave me information the eddy covariance measurements they made on the barley plant, and we exchanged ideas with her too.

All this meetings and exchange of ideas was organized by Dr. VESALA. I benefited from his extensive experience in micrometeorology. I met PhD students at INAR and they summarized their work for me. Besides, Dr. VESALA organized a group meeting, where both the academic staff and the doctoral students gave information about their research activities, and they explained what they did and are doing on micrometeorological topics. I introduced myself and what we did on micrometeorological topics. We have shared knowledge about micrometeorological studies and measurement systems (Eddy Covariance) with Prof. Dr. Timo VESALA and researchers.

Apart from that, we have travelled with Dr. VESALA and researchers from Helsinki to Hyytiälä where micrometeorological measurement systems are located, and he explained the measurements systems and studies they made there, and we exchanged ideas.

¹ This report is submitted by the grantee to the Action MC for approval and for claiming payment of the awarded grant. The Grant Awarding Coordinator coordinates the evaluation of this report on behalf of the Action MC and instructs the GH for payment of the Grant.

Prof. VESALA demonstrated me their measurement systems in the forest area and over the lake. Additionally, Prof. VESALA gave me an opportunity to contact with the technician to discuss with him about the calibration of gas analyser in Helsinki.

By the way, according to the working plan, I have given a seminar on about “Micrometeorological and agricultural meteorological studies in Türkiye”. I have presented some brief information about the water, agricultural and forest potential of my country and about our micrometeorological studies at INAR, Helsinki. Thus, I had the opportunity to share and discuss what we have done in this field in Türkiye with the relevant researchers.

During STSM, all activities were performed as written in the study plan.

Description of the STSM main achievements and planned follow-up activities

The aim of the COST activity (CA20108, FAIR NETwork of micrometeorological measurements (FAIRNESS)) is to increase cooperation among researchers working in the field of micrometeorology, to share information and to increase research cooperation in the future. This STSM has been an important step for me to get to know my colleagues and researchers working in the field of micrometeorology, to exchange views, and to develop cooperation for the future. For this reason, I would like to thank Prof. Timo VESALA for his time and hospitality.

Finally, the STSM was very useful for me and CA20108 to meet and share knowledge with the researchers who are working on micrometeorological topics especially about greenhouse gas measurements, analysis over different environment such as urban, forest, wetland and agricultural. It was very good experience for me to share and discuss our experience and knowledge with Prof. VESALA and his colleagues.

As a result, I believe this STSM was very useful for the purposes of our COST action (CA20108) and maybe a first step for possible future cooperative projects with colleagues in INAR.