

Report on the outcomes of a Short-Term Scientific Mission¹

Action number: CA20108

Grantee name: Branislava Lalic

Details of the STSM

Title: **Guide for micrometeorological practice – selected chapters**

Start and end date: 17/07/2023 to 21/07/2023

Description of the work carried out during the STSM

1. Overview of current work is made and discussed content of joint chapters.
2. Clear distinguish is made between two different but equally important type of audience: beginners and specialised public. Aa a beginner will be considered person with knowledge in atmospheric sciences, physics or related scientific fields, and at the beginning of this part of a career related to micrometeorological measurements. Beginner has (or should have) hard skill and knowledge to learn and understand principles of micrometeorological measurements and obtained results. The specialized public has some very basic knowledge about the topic but is very interested in it. For them, micrometeorological measurements organization and obtained results analysis is important transferrable skill.
3. A simplified version of Chapter 1 is prepared during STSM and discussed during online meeting with prof. Foken.
4. Application document for Springer publisher is prepared during online meeting. It is decided that book has four editors (people drafting book design and structure) B. Lalic, T. Foken, J. Eitzinger and T. Weidinger, and chapter authors.
5. General, and topic-specific check list is made in order to support potential users first contact with the book. All checks will be hyperlinked with the Handbook sections.
6. It is decided to make a book overview with links to all subsections for easier navigation through the Handbook. The fishbone diagram is considered as a possible solution.
7. Analysis of future dynamics concerning reviewing and publishing is made targeting WG4 meeting in December 2023 as a next check point. We consider some young scientist as a potential reviewers of some book chapters. We agreed to send separate chapters for review.

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.

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

Regarding structure, content, and style following conclusions are made:

1. Scientific background presented in the Handbook should be carefully selected and kept on the scale appropriate for a) designing representative/appropriate measurements, b) understanding methodology and obtained results, and c) providing FAIR micrometeorological data.
2. We agreed on the form and content of the simplified version of the Handbook, which is not for beginners (the integral version of the book covers them) but for the specialized public, which is sometimes in the position to use AWS for micrometeorological measurements, to understand and use measured data. Each chapter will be accompanied with one simplified version.
3. For beginners, “Guide for micrometeorological practice” is designed to be strong boost to hard skills and knowledge; for the specialized public this book should contribute to transferable skill enhancement.
4. After Chapter 1 is finished, it can be shared with other authors to help them keep the structure and context of the text for which they are responsible.
5. A checklist will be prepared, for each chapter in which it is appropriate, to improve the structuralisation of the learning process.
6. All additional reading material will be referenced in the book and posted on the Open Research Europe platform (<https://open-research-europe.ec.europa.eu/>).
7. Performed activities will contribute to deliverable D4.2 “Guideline for future good practices in micrometeorological measurement methods, data assimilation and indices”