

Report on the outcomes of a presentation and participation in a Dissemination Conference¹

Action number:

Grantee name:

Conference Details

Conference title: EMS Annual Meeting 2024

Conference web-page: <https://www.ems2024.eu/>

Conference venue²: The EMS Annual Meeting 2024 took place in the historic building of the University of Barcelona

Conference start and end date: 02/09/2024 to 06/09/2024

Accepted oral contribution details

Title of the presentation: Normalised DTR and Minimum Relative Humidity Across Köppen Climate Zones: Analysing Responses in Plant Phenology

Co-authors: Firanj Sremac, Ana, Lalic, Branislava, and Marcic, Milena

Other details of the presentation: Agricultural and Forest Meteorology, Including Tromp Foundation Travel Award Lecture, Convener: Branislava Lalic | Co-convener: Josef Eitzinger, Orals | Thu, 05 Sep, 09:00–13:00 (CEST) Lecture room A112.

How to cite: Firanj Sremac, A., Lalic, B., and Marcic, M.: Normalised DTR and Minimum Relative Humidity Across Köppen Climate Zones: Analysing Responses in Plant Phenology, EMS Annual Meeting 2024, Barcelona, Spain, 1–6 Sep 2024, EMS2024-426, <https://doi.org/10.5194/ems2024-426>, 2024.

Outcome of the conference participation

Description of the outcome of the conference presentation, including contacts made and potential for future collaborations.

(max. 500 word)

At the EMS2024 in Barcelona, I had the opportunity to deliver an oral presentation titled "Normalised DTR and Minimum Relative Humidity Across Köppen Climate Zones: Analysing Responses in Plant Phenology." This presentation was part of the Agricultural and Forest Meteorology session, which focused on critical environmental factors affecting agricultural productivity and forest health. The session was chaired by Branislava Lalic, with Josef Eitzinger serving as the co-convener.

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.

² For an online conference, specify virtual participation; for hybrid conferences, specify whether it is an in-person or virtual participation.

Outcomes of the Presentation: The presentation attracted significant attention due to its novel approach in analyzing the interplay between normalised daily temperature range (DTRT), minimum relative humidity, and plant phenology across various Köppen climate zones. The methodology of normalizing daily temperature range to receive new climatological index to account for differences in climate zones was of particular interest to several attendees working in related fields. This methodology was developed under the Work group 2, T2.3 Case studies design, CS2: Case study focused on season transitions in rural and urban area derived from micrometeorological measurements.

Contacts and Networking: One of the key outcomes of my participation was establishing new professional connections, particularly with researchers from diverse geographical regions. I connected with experts from Central Europe and the Mediterranean, many of whom are exploring similar issues related to climate variability and its impact on phenological shifts. Notably, I had in-depth discussions with researchers from Austria, Italy, and Spain about expanding the DTRT and relative humidity analysis to include their local datasets, which could enhance the robustness of the findings.

During the event, I also had the chance to meet with Josef Eitzinger, an established figure in agrometeorology. His insights into climate impact modeling provided valuable input that could potentially be integrated into future research. We discussed the possibility of collaborating on a project to further examine the impact of climate extremes on plant phenology across Europe, leveraging the methodologies presented at the conference. Additionally, several participants approached me following the session to discuss the potential application of our DTRT method in ecological forecasting and climate adaptation strategies for agriculture.

Future Collaborations: A particularly promising outcome was the conversation I had with researchers from the Tromp Foundation Travel Award Lecture. They expressed interest in collaborating on a follow-up study to explore climate zone-specific phenological models. This could lead to a broader, international project, potentially involving multi-site experiments and comprehensive climate data analysis.

In summary, the EMS2024 conference provided an excellent platform to share our findings, engage with experts in the field, and initiate discussions that could lead to future research partnerships. The feedback I received will directly inform the next steps in our ongoing work on climate and plant phenology.

This grant allowed me to participate on the CA20108 FAIRNESS Workshop where on Friday 06.09. I presented my research which is the result of the work we performed under the CS2. Ana Firanj Sremac: Contrasting Seasonality: A Comparative Analysis of Plant Phenology Responses in Urban and Rural Environments.

Acknowledgement of inclusion of necessary supporting documents to claim the grant

I confirm that the following documents have been uploaded on e-COST as an integral part of this report:

- the certificate of conference attendance.
- the programme of the conference or book of abstracts / proceedings indicating the oral presentation of the grantee.
- copy of the given presentation.