

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

Action number: COST Action CA20108 - FAIR Network of micrometeorological measurements (FAIRNESS)

Grantee name: Anna Buchholcerová

Conference Details

Conference title: Annual Meeting of the European Meteorological Society (EMS 2024)

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

Conference venue²: Historical University of Barcelona, Spain

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

Accepted contribution details

Title of the presentation: Adjustment of Monthly Air Temperature and Precipitation Data from Automatic System to Align with Manually Measured Long-Term Data at High-Altitude Observatory

Type of the presentation: poster

Co-authors: Veronika Lukasová, Svetlana Varšová, Milan Onderka, Dušan Bilčík, and Pavol Nejedlík

Other details of the presentation: OSA3.2 session “Climate monitoring: data rescue, management, quality and homogenization”

Outcome of the conference participation

Description of the outcome of the presentation of the accepted contribution, in terms of grantee’s visibility, including the establishment of new contacts for future collaborations

The Annual Meeting of the European Meteorological Society provides the platform for the meteorologists, climatologists, and professionals from related fields to expand their knowledge and engage in discussions on both general and less common meteorological topics. Thanks to the participation of the large number of experts, the discussions following the presentations and poster sessions were highly complex and dynamic. This made the EMS meeting a promising environment for establishing new contacts for potential future collaborations.

I presented the results of the scientific work conducted by the Department of Atmospheric Physics in form of a poster titled “Adjustment of Monthly Air Temperature and Precipitation Data from Automatic System to Align with Manually Measured Long-Term Data at High-Altitude Observatory”. The study focused on a case study of micrometeorological measurements taken at the Skalnaté Pleso Observatory located in the High Tatra Mountains in Slovakia. The poster was displayed in the OSA3.2 session “Climate monitoring: data rescue, management,

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.

quality and homogenization”. The poster addressed the issue of maintaining homogeneity in climatological series due to changes in methodology caused by the transition from manual to automated measurement systems.

I found the UP1.2 session „Atmospheric boundary-layer processes, turbulence and land-atmosphere interactions“ which took place on Thursday, to be particularly beneficial for my research on atmosphere in mountain region of High Tatras. Additionally, the UP1.5 session, „Atmospheric measurements: Instruments, experiments, networks and long-term programs using in-situ and remote sensing techniques“ was also highly relevant to the measurements on the Skalnaté Pleso Observatory. I consider the contribution of the Dutch scientist Steven Knoop on gravitational wave measurements in Netherland („Gravity wave observations by (offshore) short-range wind lidars“), to be very inspiring.

Slovakia had a relatively low representation at the EMS annual meeting compared to countries with similar populations (as shown in the upper section of Table 1) or countries from the same region of Europe (lower section of Table 1), with only 1.1 participants per 1 million inhabitants. The average representation was 2.5 participants per 1 million inhabitants for countries with similar populations and 2.2 participants per 1 million inhabitants for countries from the same region (including Slovakia). Therefore, I would like to express my sincere gratitude to the COST FAIRNESS action for approving my ITC grant application, which enabled me to represent Slovakia at this important European meeting.

Country	Population of the Country [in million inhabitants]	Number of EMS Participants	Number of EMS Participants per 1 Million Inhabitants
Croatia	3.9	13	3.3
Ireland	5.4	12	2.2
Norway	5.6	27	4.8
Finland	5.6	25	4.5
Denmark	5.9	12	2.0
Bulgaria	6.4	6	0.9
Serbia	6.6	8	1.2
<i>Slovakia</i>	5.4	6	1.1
Austria	9.0	37	4.1
Hungary	9.6	15	1.6
Czechia	10.7	39	3.6
Poland	36.8	24	0.7

Table 1. The comparison of the representation of selected European countries in EMS 2024, based on EMS Country Statistics³ and population data⁴.

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 presentation (oral or poster) of the grantee.
- copy of the given presentation (oral or poster).

³ https://www.ems2024.eu/EMS2024_country_statistics.pdf

⁴ https://en.wikipedia.org/wiki/List_of_countries_and_dependencies_by_population