

Dear colleague,

herewith we would like to draw your attention to a **session on atmospheric measurements and instrumentation** as part of the upcoming **EMS Annual Meeting: European Conference for Applied Meteorology and Climatology** which is planned to be held in presence at the **University of Economics in Bratislava** (Slovakia), from **3 to 8 September 2023**. The conference will also have an online component.

The measurement session is entitled: **“Atmospheric measurements: Instruments, experiments, networks and long-term programs using in-situ and remote sensing techniques” (UP1.5)**

This session is intended to give a forum to discuss recent developments and achievements in local to regional measurement concepts and technology. There will be a special emphasis on measurements which seek to improve our understanding of complex atmospheric processes – especially those characterizing interactions in the climate system – through obtaining comprehensive data sets. The focus is on measurements of atmospheric dynamics and thermodynamics, energy and water cycle components, and on the interaction of the atmosphere with the underlying surface.

The session will also include consideration of novel measurement approaches and networks under development for future operational use, e.g., within the frame of the Eumetnet observations program and various COST actions (such as PROBE), and the performance of new measurement techniques. Manufacturers of hydro-meteorological instruments and system solutions are thus explicitly invited to present news on sensor development, sensor performance and system integration.

Techniques may cover in-situ and remote sensing measurements from various platforms. Special attention will be given to the creation of a new generation of reliable unmanned instrument networks across Europe that provide calibrated and controlled data on the boundary layer structure in near-real time. This also includes metrological aspects of sensor characterization. Contributions are also invited that make use of advanced data sets for satellite data validation.

With reference to the special conference focus (“Europe and droughts”) we particularly invite contributions on measurements of soil moisture and evaporation

Additional information on the Annual Meeting of EMS can be found here:  
<http://www.ems2023.eu/home.html>

The **deadline for abstract submission** is **April 18, 2023**.

We very much look forward to your contribution to this session. We really hope to meet again many of you in reality in Bratislava.

With kind regards

Frank Beyrich (DWD, Lindenberg, Germany)  
Mariska Koning (KNMI, De Bilt, The Netherlands)  
Jens Bange (Eberhard-Karls-Universität Tübingen, Germany)  
Nico Cimini (CNR-IMAA, Potenza & CETEMPS, L’Aquila, Italy)