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UPCOMING EVENTS

FESSTVaL/PROBE Training school on Network-Applicable Thermodynamic Profiling:

Have you ever evaluated the different information content provided by single/multi-channel **microwave radiometers (MWRs)**, **infrared spectrometers (IRS)**, and active approaches, such as **Raman lidars (RLID)**, **differential absorption lidars (DIALs)**, and **radio acoustic sounding systems (RASS)**?

The **TROPoe retrieval software package** allows you to perform retrievals using single instrument configurations (e.g., MWR-only, IRS-only, DIAL-only) as well as multi-instrument retrievals (e.g., MWR+IRS, MWR+DIAL, IRS+RLID, MWR+IRS+DIAL).

Through hands-on training you will learn:

- How to **combine data from multiple different instruments** into the retrieval
- How to understand the TROPOE output including the **uncertainty** and the **information content**.
- How to **apply the retrieval to your observations** at home
- How to **assimilate the retrieved profiles**

If you are interested, **submit your application by 4th March 2022**. The training school will take place in Cologne for 2.5 days from 27 March to 1st April.

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E-PROFILE opens to microwave radiometers for operational thermodynamical profiling in Europe

Microwave radiometers (MWRs) have reached a high level of maturity and can contribute to closing the ABL observational gap in operational networks. EUMETNET has therefore decided to establish a **European network of MWRs** based on the existing E-PROFILE infrastructure to be **fully operational by 2023**. The network will provide brightness temperature observations, retrievals of temperature profiles, water vapor, and liquid water as well as forecast indices in near real-time on a 24/7 basis. This result was also made possible by the contribution of the COST Actions TOPROF and PROBE, which established guidelines for best operation and calibration procedures. Good luck to the network, PROBE is looking forward to actively cooperating!

EGU 2022 UPDATES

We are happy to inform you that the PROBE session at EGU collected **24 abstracts** and it is therefore confirmed for the upcoming EGU general assembly. Topics span from **aerosol profiling** and **air quality indices** to stability metrics, and include **retrievals of fog, cold pools, cloud profiles and wind structures**. Results from different campaigns and validation tests will also be presented, together with the latest developments in retrievals to capture the ABL thermodynamic status.

Due to the evolution of the pandemic situation, the EGU has had to make some important changes to the plans for this year's General Assembly:

- **The EGU date was moved to 23-27th May 2022.**
- They have changed the format of the meeting, so that now **all presentations will be short orals** that can be delivered and viewed either **online or in person**.
- PROBE session is **Mon, 23 May, 15:10-18:30 (CEST), room M2**

Also the PROBE session, initially planned as a VPICO, will now adapt to the new format.

Please follow the PROBE website to get updated on how the PROBE session will evolve :)

SPECIAL HIGHLIGHT: UPCOMING WG3/4 DOPPLER LIDAR SWG

24 March 2022 14 - 16 CET

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The WG3/4 task group aims to strengthen the knowledge exchange between groups that are operating Doppler wind lidars but also those interested in the data products.

The goal of this meeting is to collect information on operation procedures (e.g. scanning strategies) implemented for different purposes and to create an inventory of existing methods and retrieval software to derive wind, turbulence, and other products from Doppler wind lidar measurements.

If you would like to become more involved with the WG activities, please email the chair(s) of the subgroup/task group which you are interested in. An overview is provided here:

- [WG1 subgroups](#)
- [WG2 subgroups](#)
- [WG3/4 task groups](#)

OVERVIEW: RECENT SPECIAL WORKING GROUP MEETINGS

WG1

- [ABL in complex terrain](#) (23rd Sept 2021)
- [ABL in urban environments](#) (25th Nov 2021)
- [ABL profiling during summer 2022 in Paris](#) (19th Nov 2021) (joint workshop WG1/WG2)

WG2

WG meeting on synergy retrievals and preparation for Paris 2022 (16th Dec 2021)

- Aerosol subgroup:
 - a. [Aerosol profiling retrievals](#) (15th Dec 2021)
- Fog subgroup:
 - a. Fog alerts (23rd Nov 2021)

WG3/4

- ALC task group:
 - [Automatic calibration of attenuated backscatter](#) (03 Dec 2021)
 - [Optical overlap of the Lufft CHM15k](#) (13 Dec 2021)
- MWR task group
 - MWR operations and retrievals during Paris 2022 (25th Jan 2022)

Videos of the latest PROBE Introductory lectures are now available online

Intro Lecture #3 (22nd Dec 2021):

High-quality ABL observations - part 1: Profiling of temperature & humidity, wind & turbulence, aerosols; discrimination of clouds, aerosols, and precipitation

Intro lecture #4 (9th Dec 2021):

High-quality ABL observations - part 2: Forecast indices, icing alerts, fog alerts, ABL characterization

SOCIAL MEDIA



Followers on the PROBE social media channels are increasing: **125** on twitter, **56** on Instagram and **79** on LinkedIn! help us to make PROBE visible :)

VIDEO AWARDS:

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On Wednesday 16/02/2021 in Milan, the video "The atmospheric boundary layer: the layer where we live" got the price for communication in the contest organized within the national conference of the Italian meteorological association (AISAM). The price was awarded for the video's innovative graphics that explains in an intuitive way what happens in the ABL. Thanks to the PROBE community, the video now has subtitles in 14 different languages from the PROBE community.

We want to truly thank the PROBE members who contributed to have accurate subtitles in their mother tongue:

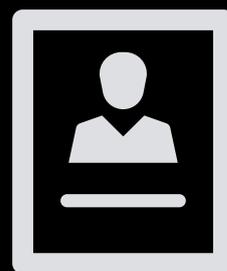


Razvan Pirloaga (Romanian), **Marko Kaasik** (Estonian), **Guðrún Nína Petersen** (Icelandic), **Maria Granados Munoz** (Spanish), **Steven Knoop** (Dutch), **Radka Kellnerova** (Czech), **Domenico Cimini** (Italian), **Joelle C. Buxmann** (German), **Peter Hrabčák** (Slovak), **Györgyi Baranka** (Hungarian), **Minttu Tuononen** (Finnish), **Maja Kuzmanoski** (Serbian), **Maria João Costa** (Portuguese), **Damyan Barantiev** and **Ekaterina Batchvarova** (Bulgarian)

JOB OPPORTUNITIES



Do you want to advertise new job opportunities and open positions in the field of atmospheric boundary layer meteorology or observation within the PROBE community? Get in contact with Klára (klara.jurcakova@it.cas.cz) for effective dissemination!



Funded by
the European Union

This publication is based upon work from COST Action CA18235, supported by COST (European Cooperation in Science and Technology).

COST (European Cooperation in Science and Technology) is a funding agency for research and innovation networks.

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