



## Introduction

Martial Haeffelin, Elisa Villard

*CCRES/CLU Training school, Munich, 2-5 Sept. 2025*

# Agenda



1. Program
2. Participants
3. NF instrument diversity
4. October workshop
5. Calendar

# Program



time		TUESDAY	WEDNESDAY	THURSDAY	FRIDAY			
		02.09	03.09	04.09	05.09			
09:00	09:30	Welcome session M. Haeffelin, E. Villard (IPSL), S. Kneifel (LMU)	<b>Lecture :</b> Visualization and interpretation of radar Doppler spectra S. Kneifel (LMU)	<b>Lecture :</b> Microphysical properties of liquid and ice clouds by means of dual-FOV lidar and lidar/radar synergy J. Bühl (TROPOS)	<b>Lecture :</b> EarthCARE Cal/Val L. Pfitzenmaier (UCol)			
09:30	10:30	<b>Lecture :</b> Introduction to DCR remote sensing J-F. Ribaud (IPSL), F. Toledo (OVSQ)						
10:30	10:45			BREAK				
10:45	11:15	BREAK						
11:00	11:15			<b>Lecture/hands-on:</b> CloudNet products E. O'Connor (FMI), S. Tukiainen (FMI)	<b>Lecture :</b> Microwave radiometry B. Pospichal (UCol), T. Marke (UCol)	<b>Lecture/hands on :</b> ABL height retrieval S. Kotthaus, M. Van Hove (IPSL)		
11:15	12:30	<b>Lecture :</b> Doppler Lidar/doppler DCR E. O'Connor (FMI), S. Tukiainen (FMI)						
12:30	14:00	LUNCH						
14:00	15:30	<b>Hands-on :</b> Doppler Lidar processing E. O'Connor (FMI), S. Tukiainen (FMI)	<b>Hands-on :</b> DCR power calibration J-F. Ribaud (IPSL), F. Toledo (OVSQ)	<b>Hands-on :</b> Cloud radar doppler spectra analysis with peako and peaktree M. Radenz (TROPOS)	<b>Hands-on :</b> HKD monitoring/ReOBS M-A. Drouin (LMD), J-F. Ribaud (IPSL)	<b>Hands-on :</b> Disdrometer/ Raingauge calibration J. Rossmanith (LMU), J-C. Dupont (IPSL)	<b>Hands-on :</b> MWR operation and calibration B. Pospichal (UCol), T. Marke (UCol)	<b>Hands-on :</b> Ceilometer dark current measurements A. Geiss (LMU)
15:30	16:00	BREAK					Closing session	
16:00	17:30	<b>Hands-on :</b> DCR pointing calibration S. Kneifel, Paul Ockenfuß (LMU)	<b>Hands-on :</b> Doppler Lidar processing E. O'Connor (FMI), S. Tukiainen (FMI)	<b>Hands-on :</b> HKD monitoring/ReOBS M-A. Drouin (LMD), J-F. Ribaud (IPSL)	<b>Hands-on :</b> Cloud radar doppler spectra analysis with peako and peaktree M. Radenz (TROPOS)	<b>Hands-on :</b> MWR operation and calibration B. Pospichal (UCol), T. Marke (UCol)	<b>Hands-on :</b> Disdrometer/Raingauge calibration J. Rossmanith (LMU), J-C. Dupont (IPSL)	Travel
17:30	18:00	Wrap-up session / roof platform tour (in groups)						

# Participants

42

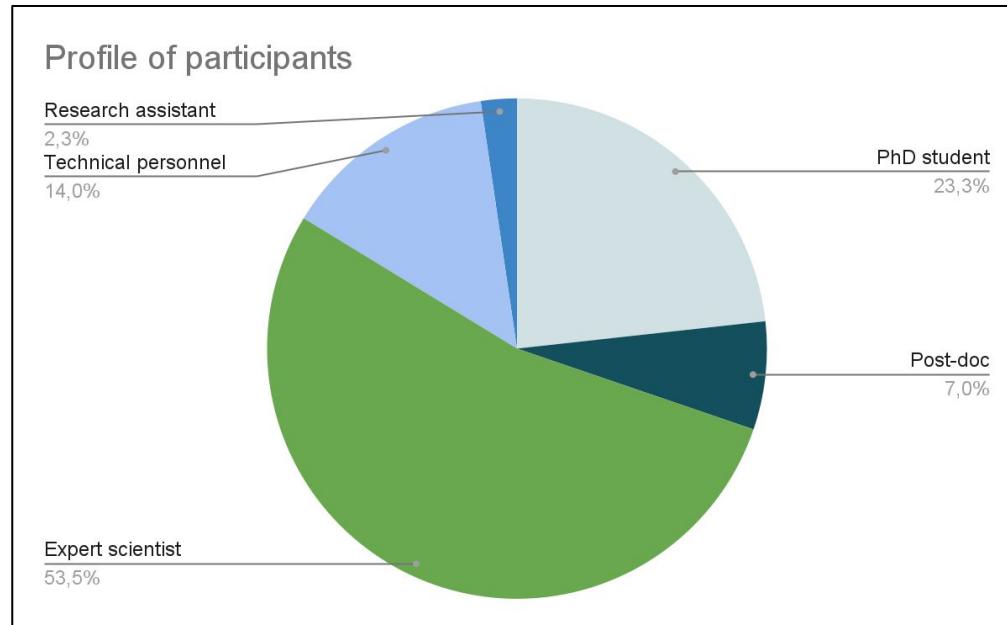
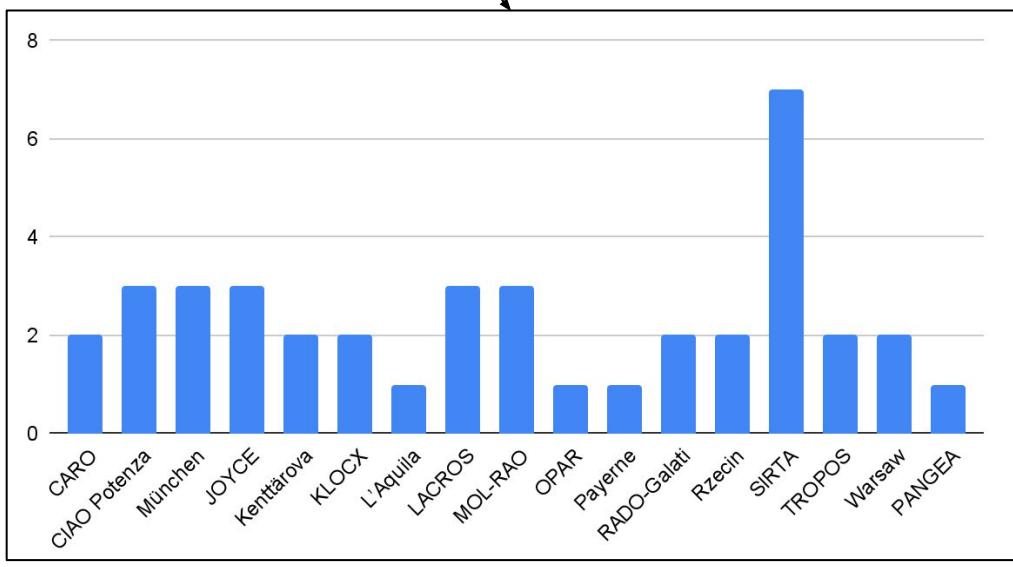
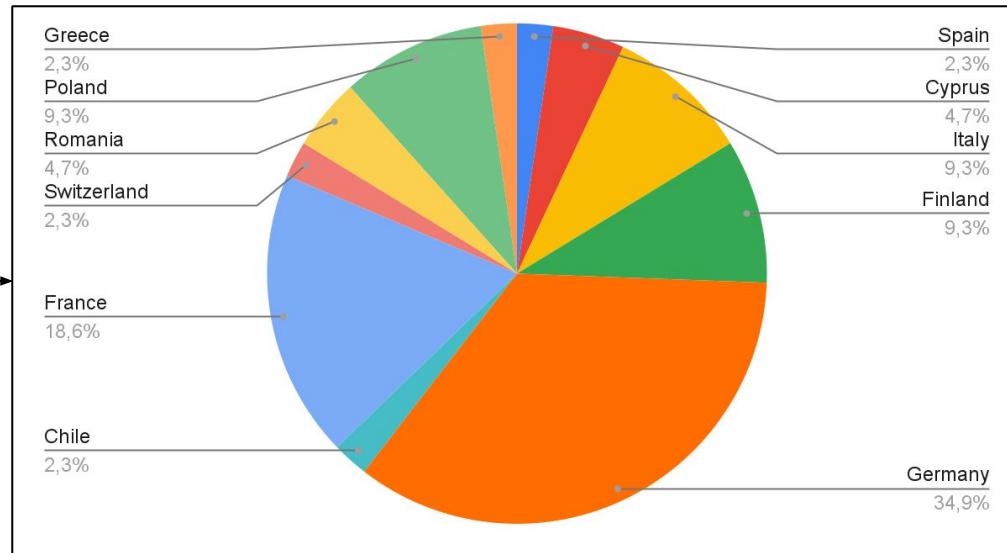
PARTICIPANTS

11

COUNTRIES

18

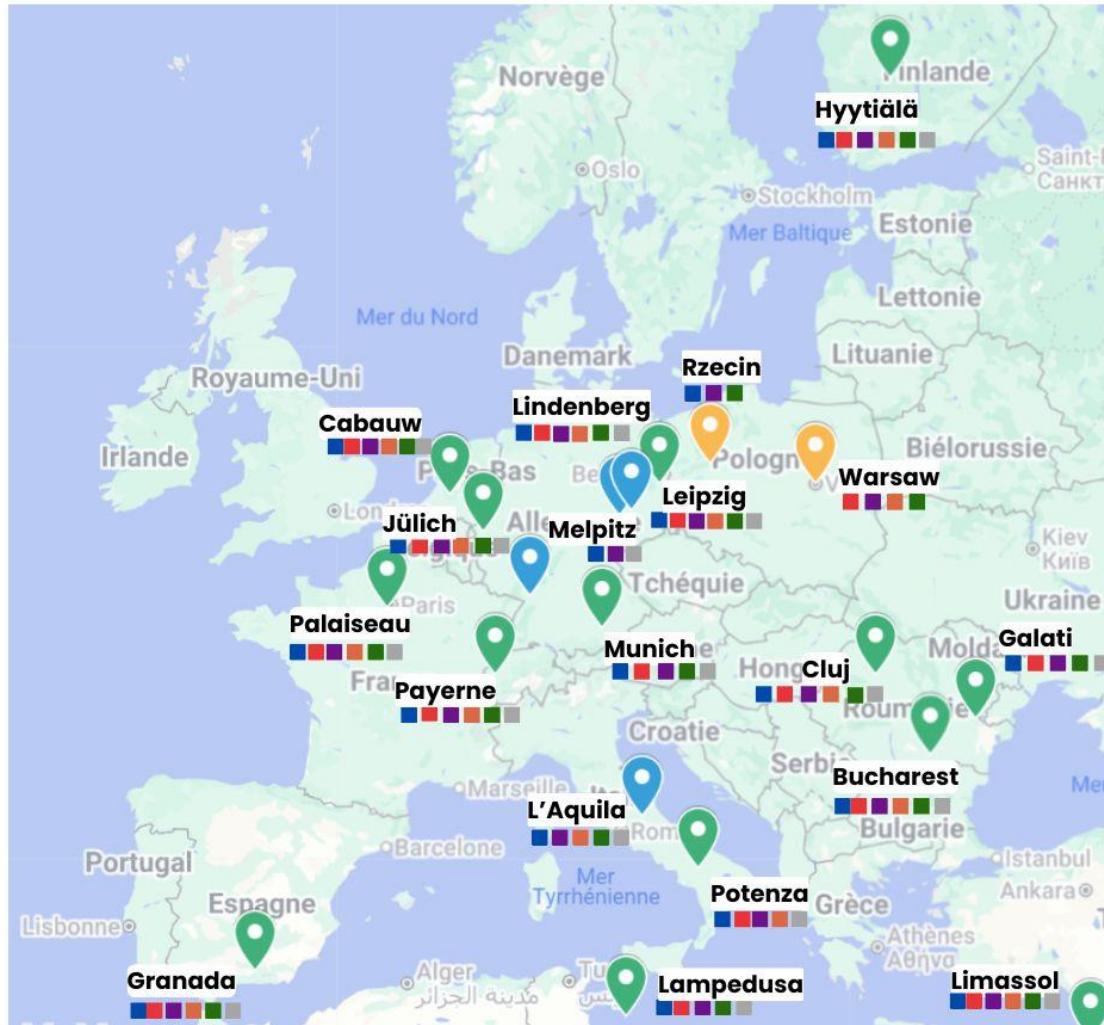
CRS NF REPRESENTED



# NF instrument diversity

v 07.2025

- DCR
- MWR
- ALC
- DL
- Disdrometer
- Weather station
- ACTRIS CRS Labelling in progress
- ACTRIS CRS Labelling initiated
- ACTRIS CRS candidate



Cape Verde



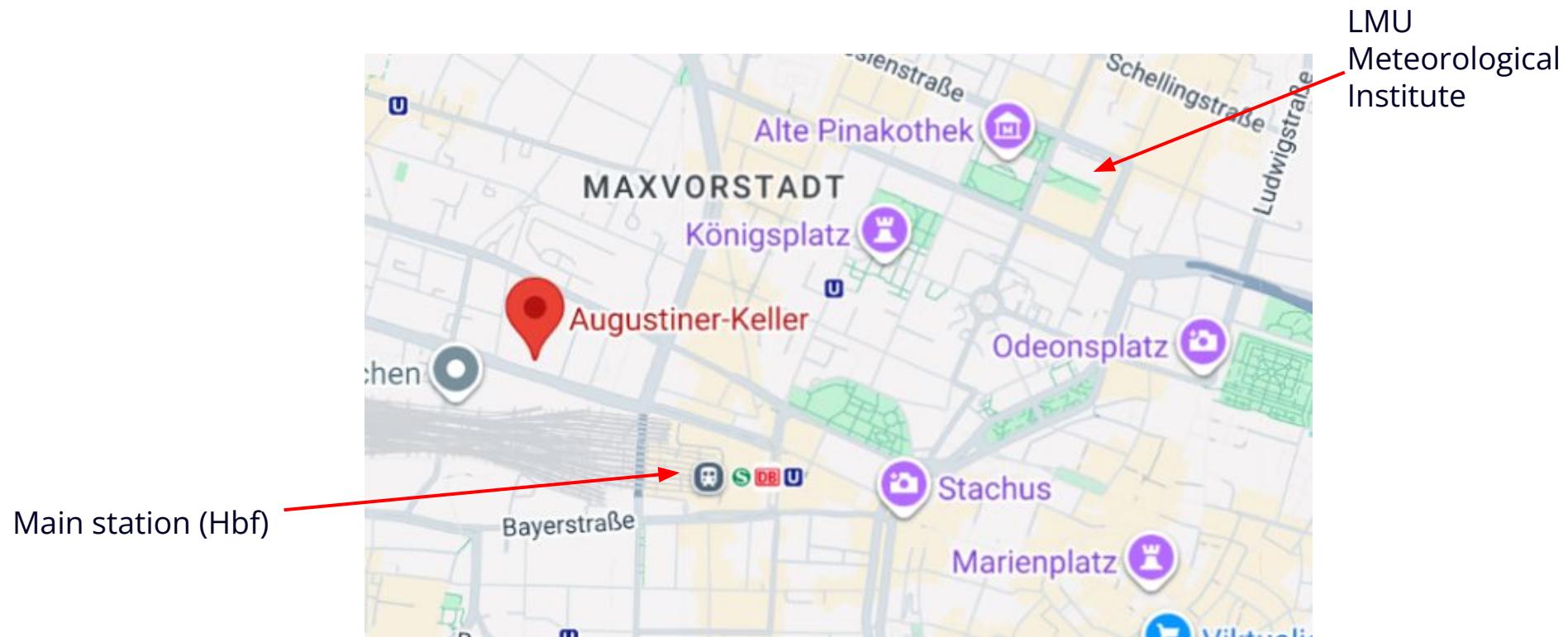
Finland



La Réunion

# Social event

A social event will be organised on Thursday, September 4th at **Augustiner Keller** (<https://www.augustinerkeller.de/fr>). From the main train station, it can be reached by walk (8 minutes) and from LMU Meteorological Institute, by **bus 58 or 100** (walk 10 minutes, then 6 minutes by bus) from "Pinakotheken" to "Hauptbahnhof Nord" stop.



# Next workshop

Next CCRES/CLU workshop will take place on **October 22 in Evora, Portugal** and **online**, as part of the ACTRIS Week 2025. More information on the event can be found on ACTRIS website :

<https://actris.eu/news-events/events/actris-week-2025>

**Registrations** are open **until September 19th** on [ACTRIS website](#).

## Focus of the workshop :

- A joint session with CARS, focusing mainly on ALC
- Latest news and updates from CCRES and CLU
- Sharing experiences between the National Facilities → we strongly encourage all the NFs to prepare a 10 minutes session (5' for the presentation and 5' for discussion), focusing on **specific issues encountered at their station** during the implementation of SOPs and calibration methods, or related to measurements or data processing.

**Objective** : to encourage NF engagement and sharing of experience among the community by sharing **the approach and method adopted to solve specific issues**, or to discuss ongoing issues that have not yet been resolved.

In the future, we intend to organise regularly such sessions, mostly online, so that every NF can present - at least once a year - an update on their work on cloud remote sensing.

# Calendar 2025-2026

## 2025

- SEPT.**
  - **EMS Annual Meeting 2025**, Ljubljana (Slovenia) - 7th to 12th of September
  - **5th International Snowfall Workshop**, Reading (UK) - 15th to 17th of September
- OCT.**
  - **BASTA CCRES calibration campaign**, Granada (Spain) - October to December
  - **ACTRIS Week 2025**, Evora (Portugal) - 20 to 24th of October
- DEC.**
  - **EarthCARE science and validation workshop**, Tokyo (Japan) - 1st to 5th of December

**CCRES events**  
**ACTRIS events**  
**Other events**

## 2026

- JAN.**
  - **BASTA CCRES calibration campaign**, Bucharest, Galati and Cluj (Romania) - January to July
- APRIL**
  - **ACTRIS Science Conference 2026**, Oslo (Norway) - 20 to 24th of April (abstract submissions opening in October 2025, <https://actris.eu/ASC2026>)
  - **18th Specialist Meeting on Microwave Radiometry & Remote Sensing of the Environment**, L'Aquila (Italy) - 27th to 30th of April



Thank you !