



## **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



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

# Participants

42

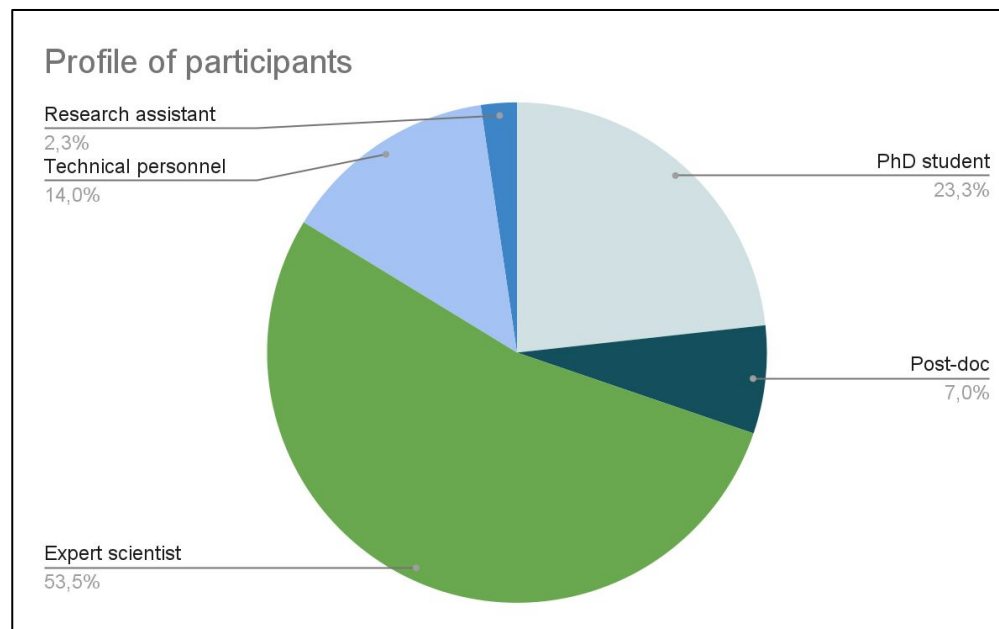
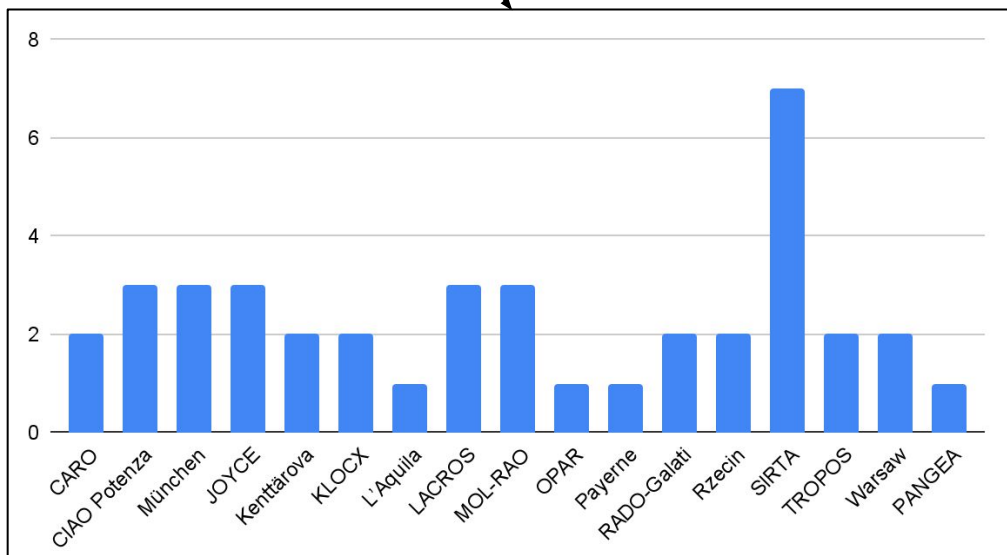
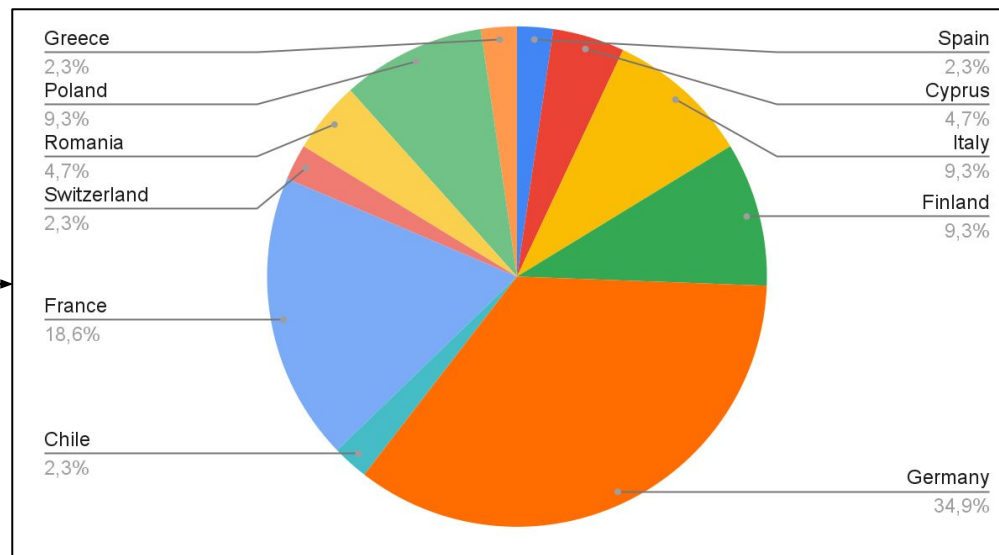
PARTICIPANTS

11

COUNTRIES

18

CRS NF REPRESENTED



# NF instrument diversity

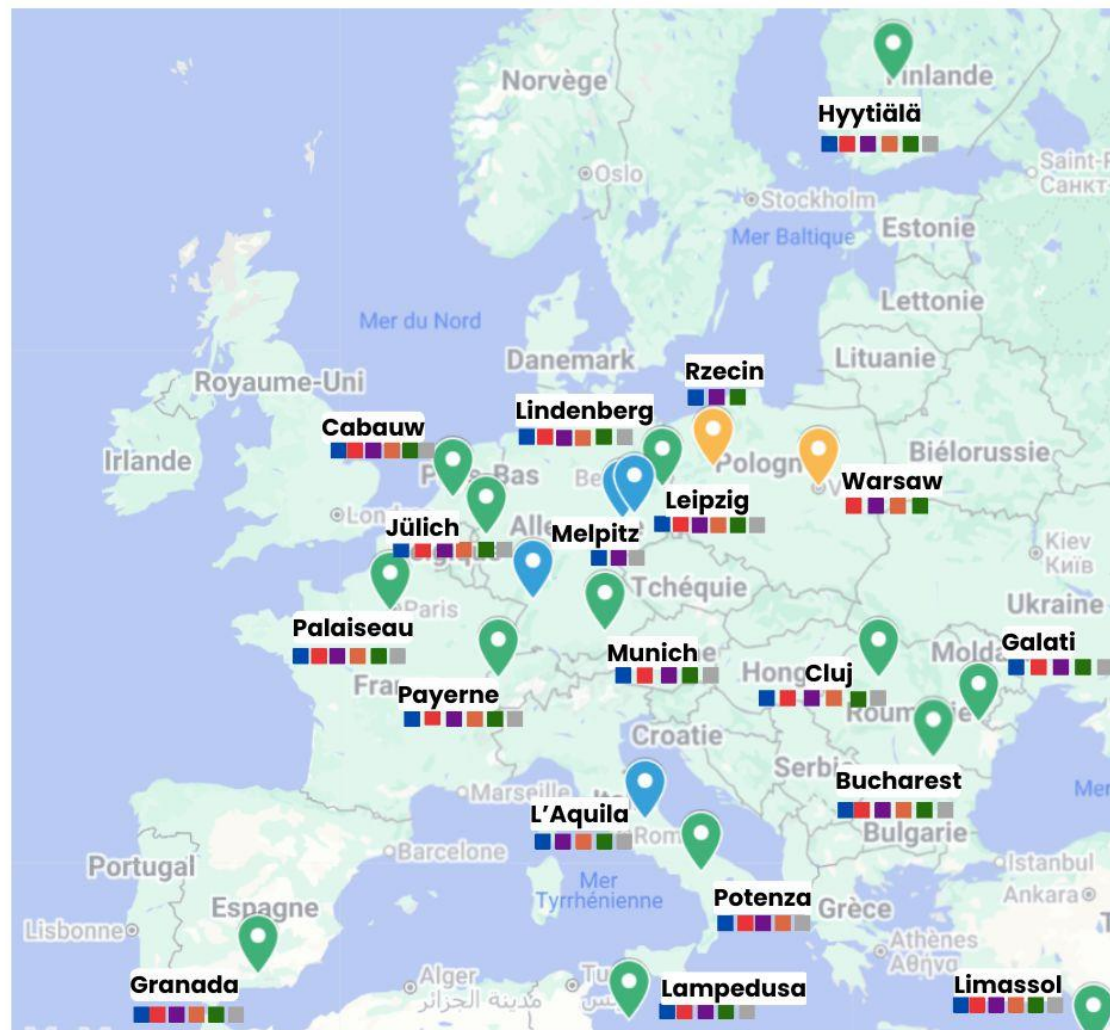
v 07.2025

- DCR
- MWR
- ALC
- DL
- Disdrometer
- Weather station

- ACTRIS CRS Labelling in progress
- ACTRIS CRS Labelling initiated
- ACTRIS CRS candidate



Cape Verde



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.

LMU  
Meteorological  
Institute



Main station (Hbf)

# 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

CCRES events  
ACTRIS events  
Other events

- 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

## 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 !