ACTRiS CCRES

Introduction

Elisa Villard, Martial Haeffelin

CCRES Workshop, Heraklion – Oct 26th, 2023

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Plan

- Workshop Agenda
- Workshop Participants
- NFs instrument diversity
- How to access CCRES services

Workshop Agenda

Morning

09:00 - 09:15 Introduction	Introduction and CRS workshop planning	**Martial Haeffelin (IPSL)** **Elisa Villard (IPSL)**	**15'**
09:15 - 10:00 New CCRES services for NFs	Update on MWR data processing and retrieval development	**Tobias Marke (UCOL)**	**15'**
	Monitoring the cloud radar stability using disdrometers, preliminary results for 3 sites / 5 cloud radars and 5 disdrometers	**Yanis Grit (IPSL), Jean-Charles Dupont (IPSL)**	**15'**
	Disdrometer and weather stations SOPs	**Jean-Charles Dupont (IPSL), Lukas Pfitzenmaier (UCOL)**	**15'**
10:00 - 10:30 Hands On/Demos	CRS NF Labelling : Steps 1A procedure	**Martial Haeffelin (IPSL)**	**30'**
	Coffee Break		
11:00 - 12:00 Hands On/Demos **New CCRES services for NFs**	Technical parameters monitoring for cloud remote sensing NFs	**Marc-Antoine Drouin (LMD/IPSL)**	**15'**
	Discussion on scanning/non-scanning strategy for all instruments	**Chris Walden (NCAS)**	**15'**
	ALC dark current, QA/QC procedures	**Alexander Geiss (LMU)**	**15'**
	MWR calibration	**Bernhard Pospichal (UCOL)**	**15'**
12:00 - 12:30 DIscussion	General discussion on new services General CCRES SOPs discussion Feedback from NFs	**All**	**30'**

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Workshop Agenda

Afternoon

	Lunch Break		
• **13:30 - 15:00 Feedback from NFs**	Update from CLU database and Cloudnet features Presentation of CLU data QC Discussion	**Simo Tukiainen (FMI), Ewan O'Connor (FMi)**	**30'** **30'** **30'**
	Coffee Break		
• **15:30 - 16:00 Feedback from NFs**	Tracking maintenance, repairs	**All**	**30'**
• **16:00 - 17:00 EarthCARE Cal/Val Activities**	Presentation	**Lukas Pfitzenmaier (UCOL) Felipe Toledo (LATMOS/IPSL)**	**60'**
• **17:00 - 17:15 Concluding remarks**	Presentation	**All**	**15'**

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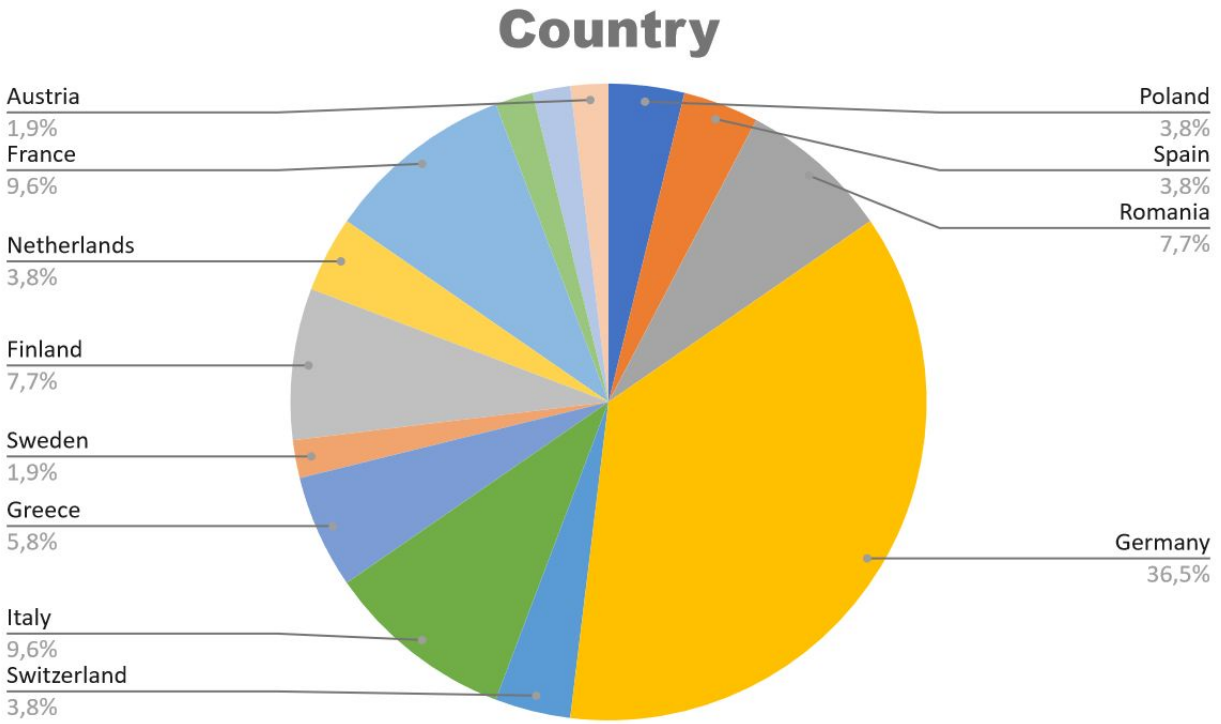
Workshop Participants

52 PARTICIPANTS
(26 physically)

12 COUNTRIES

17 CRS NF REPRESENTED



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CRS NF Participants

52 PARTICIPANTS (26 physically)

12 COUNTRIES

17 CRS NF REPRESENTED

Poland	Rzecin Warsaw
The Netherlands	Cabauw
Germany	MOL-RAO Joyce München
Italy	CIAO Lampedusa
France	SIRTA
Romania	RADO-Bucharest RADO-Galati RADO-Cluj
Switzerland	Payerne
Greece	PANGEA
Finland	Kenttärova Hyytiälä
UK	Chilbolton

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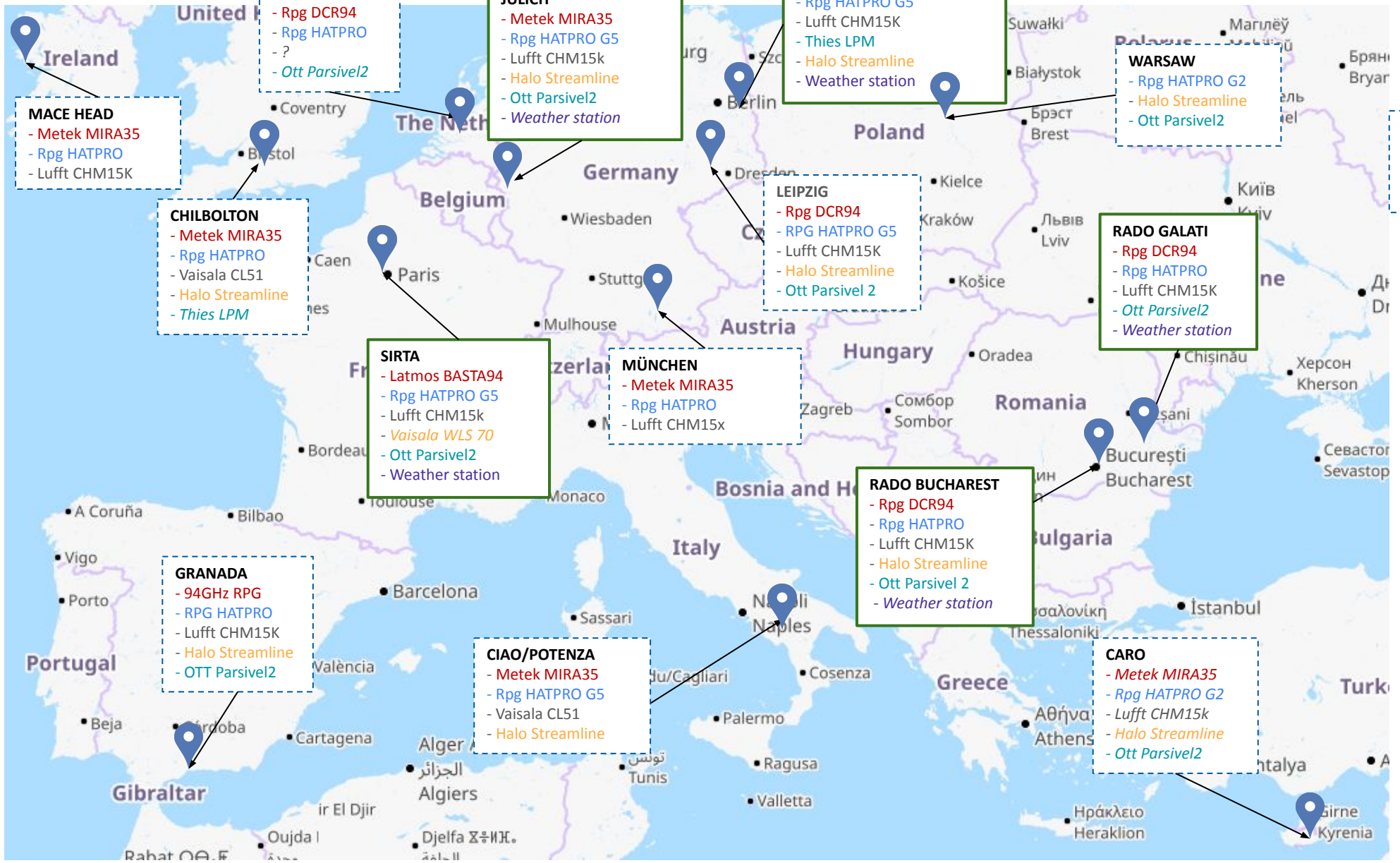
NFs instrument diversity in 2023



CABAUW
- Rpg DCR94
- Rpg HATPRO
- ?
- *Ott Parsivel2*

JÜLICH
- Metek MIRA35
- Rpg HATPRO G5
- Lufft CHM15k
- Halo Streamline
- Ott Parsivel2
- *Weather station*

LINDENBERG
- Metek MIRA35
- Rpg HATPRO G5
- Lufft CHM15K
- Thies LPM
- Halo Streamline
- Weather station

WARSAW
- Rpg HATPRO G2
- Halo Streamline
- Ott Parsivel2

PALLAS
- Rpg DCR94
- Vaisala CL31
- Halo Streamline

FINLAND

HYYTIÄLÄ
- Rpg DCR94
- Rpg HATPRO
- Halo Streamline
- Vaisala CL61
- Ott Parsivel2
- Weather station

NORUNDA
- Rpg DCR94
- Vaisala CL51
- Ott Parsivel2

SWEDEN

MACE HEAD
- Metek MIRA35
- Rpg HATPRO
- Lufft CHM15K

CHILBOLTON
- Metek MIRA35
- Rpg HATPRO
- Vaisala CL51
- Halo Streamline
- *Thies LPM*

LEIPZIG
- Rpg DCR94
- RPG HATPRO G5
- Lufft CHM15K
- Halo Streamline
- Ott Parsivel 2

RADO GALATI
- Rpg DCR94
- Rpg HATPRO
- Lufft CHM15K
- *Ott Parsivel2*
- *Weather station*

SIRTA
- Latmos BASTA94
- Rpg HATPRO G5
- Lufft CHM15k
- *Vaisala WLS 70*
- Ott Parsivel2
- Weather station

MÜNCHEN
- Metek MIRA35
- Rpg HATPRO
- Lufft CHM15x

NORWAY

NY-ALESUND
- Rpg DCR94
- Rpg HATPRO G2
- Vaisala CL51
- Ott Parsivel2

RADO BUCHAREST
- Rpg DCR94
- Rpg HATPRO
- Lufft CHM15K
- Halo Streamline
- Ott Parsivel 2
- *Weather station*

GRANADA
- 94GHz RPG
- RPG HATPRO
- Lufft CHM15K
- Halo Streamline
- OTT Parsivel2

CIAO/POTENZA
- Metek MIRA35
- Rpg HATPRO G5
- Vaisala CL51
- Halo Streamline

CARO
- *Metek MIRA35*
- *Rpg HATPRO G2*
- *Lufft CHM15k*
- *Halo Streamline*
- *Ott Parsivel2*

Legend Doppler Cloud Radar
Micro wave radiometer
Ceilometer
Doppler lidar
Disdrometers
Weather stations

In Progress/Operational

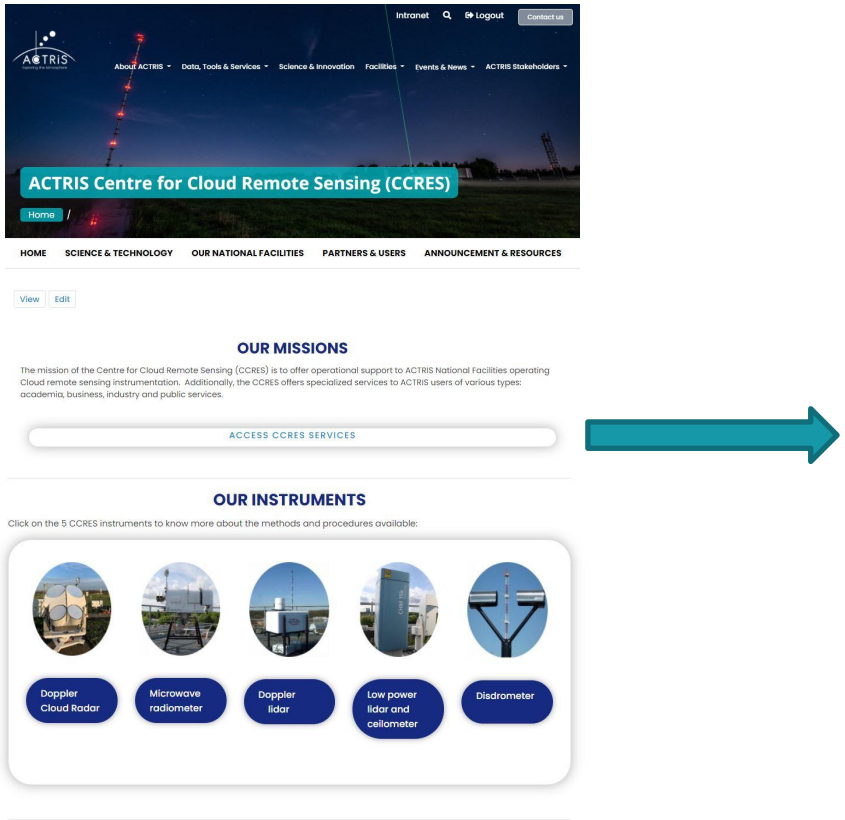
accepted for labelling step 1a

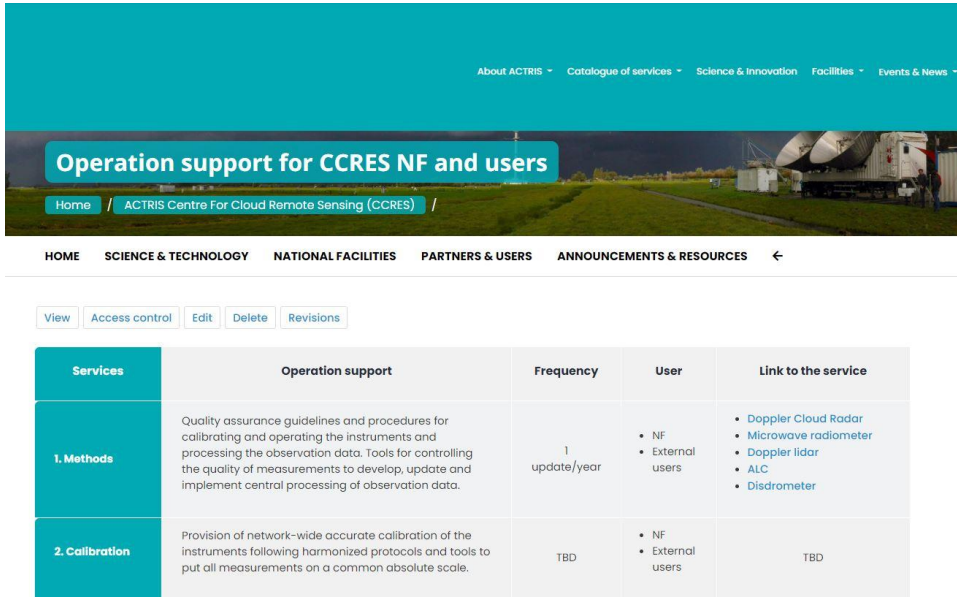
in progress for labelling step 1a

How to access CCRES Services ?

CCRES website

https://www.actris.eu/topical-centre/ccres





Services	Operation support	Frequency	User	Link to the service
1. Methods	Quality assurance guidelines and procedures for calibrating and operating the instruments and processing the observation data. Tools for controlling the quality of measurements to develop, update and implement central processing of observation data.	1 update/year	• NF • External users	• Doppler Cloud Radar • Microwave radiometer • Doppler lidar • ALC • Disdrometer
2. Calibration	Provision of network-wide accurate calibration of the instruments following harmonized protocols and tools to put all measurements on a common absolute scale.	TBD	• NF • External users	TBD

Access the different CCRES services and download all our updated documents!

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Thank you !