

# ACCORD

A Consortium for COnvection-scale modelling  
Research and Development

## Newcomers Session

All Staff Workshop 2026

# EPS and Tactus

## Institute:

- Danish Meteorological Institute, DMI

## Background

- Master's in Geophysics from the University of Copenhagen, Denmark

## Actual activities

- Separation of tactus from Deode-Workflow
- Development of a new python package [UranieMusc](#) to do sensitivity studies in Uranie with the Musc configuration.

## Future

- Will start a PhD this summer with the title  
“Physics constrained machine learning models for weather prediction”

## Presenting

No presentation



# Assimilating Hyperspectral IR with transformed retrievals

## Institute:

- KNMI - the Netherlands

## Background

- Aerospace Engineering (BSc.) & Aerodynamics (MSc.) degree at University of Technology in Delft, the Netherlands



## Actual activities

- Research: Assimilation of hyperspectral infrared observations using Transformed Retrievals
- Sub-kilometer data assimilation using 4D-Var

## Presenting

- A presentation on Tuesday April 14th 09:30  
Assimilation of externally generated transformed retrievals from IASI in  
Harmonie-AROME 4D-Var

# High-Resolution Weather Modeling and Urban Meteorology

## Institute:

Direction générale de la météorologie Maroc (Maroc Meteo)

## Background:

- PhD student working on high-resolution numerical weather prediction and urban meteorology
- Engineering degree in meteorology (EHTP, Morocco)
- Master's degree in city and urban environment (ECN, France)

## Actual activities:

- high-resolution modeling with AROME, including model verification
- analysis of model performance over complex environments

## Presenting:

- Poster



# Pseudo Global Warming in Tactus

## Institute:

- KNMI

## Background:

- PhD at KIT (Germany) - extratropical transition, modelling
- Postdoc at KIT (Germany) - several topics regarding modelling and extreme events in a changing climate
- City administration - climate adaptation

## Actual activities:

- Project UrbanAIR
- Implementing Pseudo Global Warming in Tactus, using GL

## Presenting:

- Poster, later today



# Turbulence modelling

## Institute

- SMHI

## Background

- M.Sc: Applied mechanics at Chalmers Uni. (Sweden)
- PhD: Fluid and Thermodynamics at Chalmers Uni. (Sweden)
  - Turbulent combustion modelling

## Current

- Post-doc at Fou Metroerology SMHI
- Turbulence for hectometric NWP
- Project: UrbanAIR

**Presenting:** Poster on high resolution NWP for UrbanAIR needs



# Operational and NWP activities

## Institute:

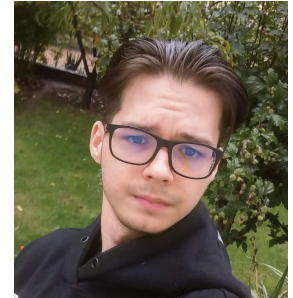
- National Meteorological Administration - Bucharest, Romania

## Background:

- Bachelor's degree - National University of Science and Technology Politehnica Bucharest, Faculty of Automatic Control and Computer Science

## Actual activities:

- compilation, verification, adapting nwp models to different local infrastructures, all NWP activities in my group



# HPC Infrastructure and Operational NWP Suite Management

## Institute

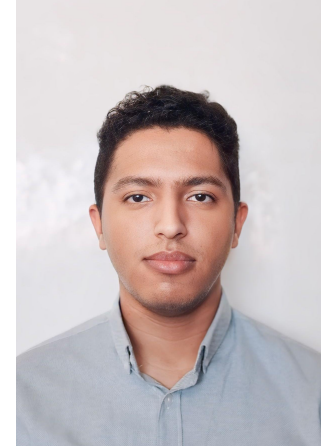
Direction Générale de la Météorologie Maroc - Maroc Météo

## Background

- Engineering Degree in Computer Science & Networks

## Actual Activities

- Managing HPC, archive & storage systems
- Technical management and configuration of operational NWP suites — ALADIN, ALARO & AROME
- Managing operational model upgrade cycles, from code export and compilation to operational deployment
- NWP forecast verification and scoring



# MLWP Nowcasting

## Institute:

- Slovak Hydrometeorological Institute (SHMÚ), part-time

## Background:

- Master's degree in Meteorology, thesis regarding MLWP
- 1st year PhD Student, focus on scale gap
- Part-time software developer

## Actual activities:

- Research, verification, harmonization of suitable inputs/targets for a neural network
- Development of data pipelines and suitable methods for an operational product

