

ALARO-1 Working Days, 3-5 March 2025, Krakow

Programme

Monday 3rd March 2025

09:00-10:00 Arrival to IMGW-PIB Krakow, network set up, checking with online participants

10:00-10:30 Welcome, practical matters

10:30-11:00 Coffee break

11:00-12:30 R&D presentations

- Ivan Bašták Ďurán: TKE scheme in IFS (30')
- Martina Tudor: ALARO in the future (10')
- discussion

12:30-14:00 Lunch break

14:00-15:30 R&D presentations

- Peter Smerkol: Progress in TOMS stabilization (25')
- Mario Hrastinski: TKE-based turbulence length scale: the final settings and their preliminary validation (30')
- Radmila Brožková: Tuning TKE-based mixing length and first results (20')
- discussion

15:30-16:00 Coffee break

16:00-17:00 R&D presentations

- David Němec: Selected specifics of double-moment microphysics (30')
- discussion

18:00 - walking trip around the Old Town of Cracow

Starting point:

https://www.google.pl/maps/search/50.055310,+19.928773?entry=tts&g_ep=EgoyMDIOMDUxMi4wKgBIAVAD

19:00-21:00 Common dinner (Smakołyki Restaurant, Straszewskiego Street 28)

Location:

https://www.google.pl/maps/place/Restauracja+Smakołyki/@50.061193,19.9303025,18z/data=!3m1!5s0x47165b0c1453c3dd:0x7725226469c56dc0!4m6!3m5!1s0x47165b0c144e1eff:0xe7cea63f24f58df8!8m2!3d50.0614836!4d19.931728!16s%2Fg%2F1wbrwj2_?entry=ttu&g_ep=EgoyMDI1MDIyNC4wIKXMDS0JLDEwMjExNDU1SAFQAw%3D%3D

Tuesday 4th March 2025

09:00-10:30 ALARO operational experience

- Małgorzata Szczęch-Gajewska: ALARO operational experience in PL (10')
- Radmila Brožková: ALARO operational experience in CZ (15')
- Alexandra Crăciun: ALARO operational experience in RO (15')
- discussion

10:00-11:00 Coffee break (IMGW internal meeting)

11:00-12:30 R&D presentations

- Martin Belluš: Upgrade of model uncertainty simulations in the A-LAEF system & sub-kilometric experiments with ALARO mini-EPS (25')
- Pau Escribà: Some verification of ALARO CY46 in the AEMET-gSREPS (25')
- discussion

12:30-14:00 Lunch break

14:00-16:00 R&D and technical presentations

- Mária Derková: ALARO operational experience in SK (15') - POSTPONED FROM MORNING
- Martina Tudor: ALARO in DEODE (15') - POSTPONED FROM MORNING
- Bogdan Bochenek: Increasing number of members in ensemble systems. Results of tests with ALARO and Fourcastnet (20') - POSTPONED FROM MORNING
- Piotr Sekuła: Use of CAMS atmospheric aerosols in ALARO model (20')
- David Němec: How to run MUSC and prepare new cases easily (30')
- Martina Tudor: Code refactoring/source-to-source translation (10')
- discussion

16:00-16:30 Coffee break

16:30-17:30 R&D presentations

- Mario Hrastinski: Towards the 3D turbulence in ALARO (30')
- Debasish Mahapatra: First Results from ALARO Simulations over the Amazon Issues Faced and Sensitivity Experiment Design (15')
- discussion

Wednesday 5th March 2025

09:00-10:30 R&D presentations

- Gabriel Stachura: Towards improved coupling and initialization of snow in ALARO+SURFEX (20')
- Debasish Mahapatra: PGD Generation and Running ALARO-SURFEX in Daily Cycling Mode (15')
- Ján Mašek: Status of ALARO with SURFEX (30')
- discussion

10:30-11:00 Coffee break

11:00-12:30 R&D, planning and discussion

- Discussion on future work proposals
- discussion