

ALARO-1 Working Days, 13-15 June 2022, Prague

Programme

Monday 13th June 2022

12:30-13:30 Lunch

13:30-13:40 Registration

13:40-15:00 R&D presentations

- Opening and organizational issues - 10'
- Martina Tudor: Physics and ALARO CSC in ACCORD reporting - 10'
- Ján Mašek: Progress of ALARO with SURFEX - 30'
- Luc Gerard: A new path to cloud and condensation reunification in ALARO (remote talk) - 30'

15:00-16:00 Coffee break

16:00-17:00 R&D presentations

- David Němec: New developments in microphysics/graupel - 30'
- Mario Hrastinski: Mixing length developments in TOUCANS - 30'

Tuesday 14th June 2022

09:00-10:30 ALARO operational experience

- Radmila Brožková: ALARO operational experience in CZ - 15'
- Mario Hrastinski: ALARO operational experience in HR - 15'
- Piotr Sekula: ALARO operational experience in PL - 15'
- Neva Pristov: ALARO operational experience in SI - 15'
- Mária Derková: ALARO operational experience in SK - 15'

10:30-11:10 Coffee break

11:10-12:30 ALARO 1km, ALARO in EPS

- Michiel Van Genderachter: Validation of ALARO 1.3km at the RMI - 30'
- Pau Escribà: Status and upgrade of ALARO model in the AEMET-gSREPS - 30'
- Mária Derková: A-LAEF forecast performance for several prominent cases - 20' (presentation of Martin Belluš)

12:30-13:30 Lunch break

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13:30-15:00 R&D presentations

- Martina Tudor: Future developments and paths (mostly with respect to the interface with dynamics and prospects for interoperability and convergence) - 15'
- Ivan Bašták Ďurán: The two-energy turbulence scheme coupled to the assumed PDF method (remote talk) - 30'
- Bogdan Bochenek: Possible use of machine learning techniques in ALARO - 15'
- Ján Mašek: Implementation of ALARO climate simulations on 2.3km - 30'

15:00-16:00 Coffee break

16:00-17:00 Tools

- Martina Tudor: Running MUSC with ALARO (technical and other stuff) - 20'
- Ján Mašek: Tools for improving physiography in e923 clim files - 20'
- discussion of tools and physiography - 20'

18:00 Common dinner (restaurant “Škoda lásky” at Zbraslav)

Wednesday 15th June 2022

09:00-10:30 Code refactoring and GPU adaptation

- Martina Tudor: Code refactoring and apl_alaro - 30'
- Daan Degrauwe: Guidelines for refactoring the physics in view of GPU porting - 30'
- discussion of roadmap to apl_alaro - 30'

10:30-11:30 Coffee break

11:30-12:30 Discussion and plans

- Martina Tudor: Physics in ACCORD RWP 2023 - 20'
- Ján Mašek: Wrap up of TOUCANS brainstorming - 30' (presentation of Ivan Bašták Ďurán)
- Ján Mašek: Info on CAMS aerosols in radiation - 10'

12:30-13:30 Lunch break

13:30-15:00 Final discussion, recommendations, closing of the meeting

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