





ALADIN activities in Romania

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ALARO Operational Suite



Characteristics

• cy40t1 - ALARO-0 baseline;

- semi-implicit semi-Lagrangian 2TL, Δt =240 s;
- $\Delta x = 6.5$ km, 240 x 240 points, 60 vertical levels, linear grid, Lambert projection;
- LBC from ARPEGE (3h frequency), DFI Initialization;
- 4 runs /day 00, 06, 12, 18 UTC no DA;
- forecast range: 78/54/66/54 hours;
- physical parameterizations : ALARO-0 including developments concerning thermodynamics adjustment, microphysics, moist deep convection.

Downstream applications

- Atmospheric input from ALARO for:
- hydrological model
- wave model

Post-processing

• FULLPOS in line - geographical grid (0.06° x 0.085°)

Visualization

• Graphics based on package developed within NMA and RC-LACE, based on grib_api, perl and NCL-NCAR

Statistical Adaptation Verification

Case study: 27.07.2017 - Testing ALARO-1 versions

The operational version

- respect to the observations in the south-eastern part of Romania
- country





24h cumulated precipitation, 27.07.2017 - 28.07.2017, 06 UTC

Testing ALARO coupled with SURFEX

