

NWP activities in Austria in 2009/2010

Y. Wang

Model in operation

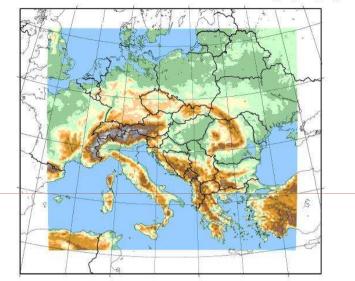
ALADIN-Austria:

- ALADIN CY35t1 (ALARO + 3MT version), coupled with ARPEGE
- 9.6km horizontal resolution, 60 levels in vertical
- 4 runs at 00, 06, 12, 18UTC, up to 60h and 72h.

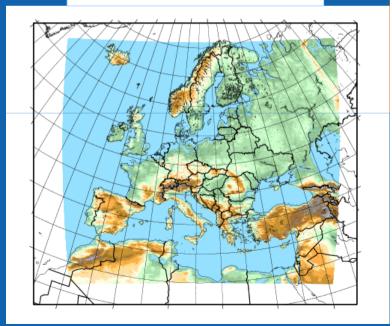
ALADIN-Europe:

- ALADIN CY33 (ALARO version), coupled with ECMWF
- 6.5 km horizontal resolution, 45 levels in vertical
- 2 runs at 00, 12 UTC, up to 72h.

ALADIN-AUSTRIA Domain & Topography



ALADIN-EUROPE

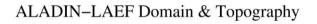


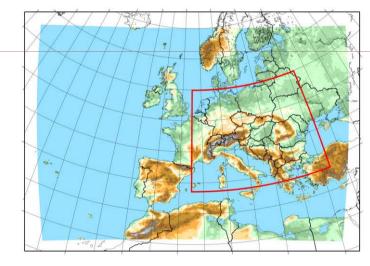


ALADIN-LAEF: operational

ALADIN-LAEF (Limited Area Ensemble Forecasting) :

- ALADIN Blending of 16 ECMWF EPS members
- Multi-physics, Non-Cycling surface Breeding
- 18km horizontal resolution, 37vertical levels
- 2 runs per day at 00 and 12UTC, up to 60h
- Products at MARS archiving for partners





Research going on:

Stochastic physics, higher resoultion (11km), surface perturbation, LBC perturbation predictability studies on cloud permitting scale



Model and Assimilation in test

AROME-Austria:

- ALADIN cy35, coupled with ALADIN-AUSTRIA
- 2.5km horizontal resolution, 60 levels in vertical
- 2 runs at 00,12UTC, up to 30h.

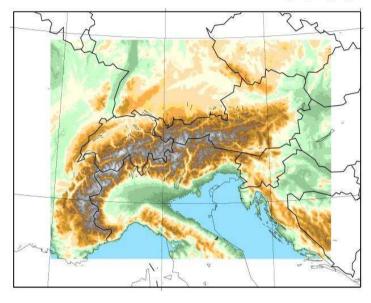
ALARO-Austria (4.9km):

4.9 km horizontal resolution, 60 levels in vertical

ALADIN-Austria data assimilation:

- ALADIN 3D-Var
- CANARI
- 6h cycling

AROME-AUSTRIA Domain & Topography





Recent and ongoing R & D:

Nowcasting INCA

GPS assimilation

Surface data assimilation EKF/ASCAT

Study on precipitation forecast over mountain with AROME

