

Zentralanstalt für Meteorologie und Geodynamik



NWP activities in Austria in 2008/2009

Y. Wang

Model in operation

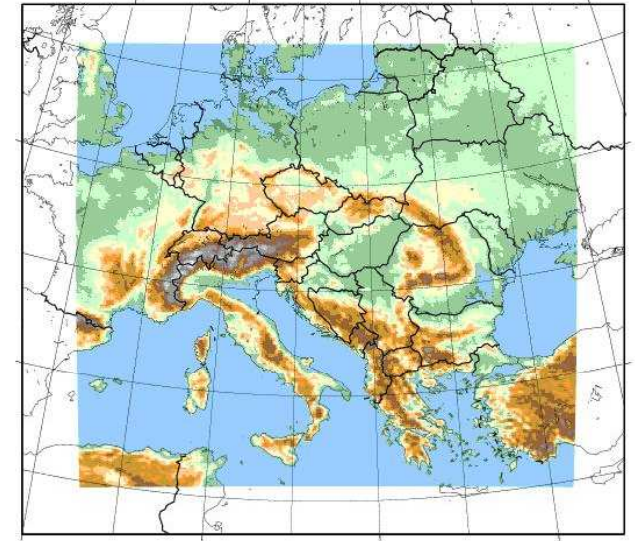
ALADIN-Austria:

- ALADIN CY33 (ALARO version), coupled with ARPEGE
- 9.6km horizontal resolution, 60 levels in vertical
- 4 runs at 00, 06, 12, 18UTC, up to 60h and 72h.

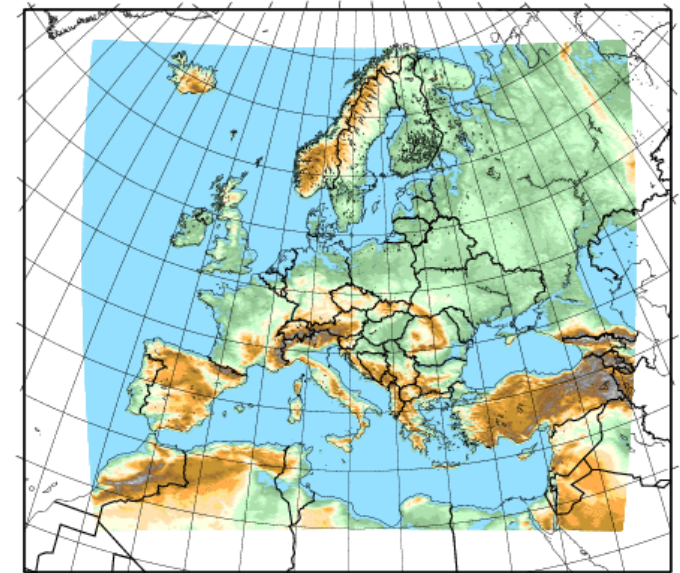
ALADIN-Europe:

- 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



Model in test

AROME-Austria:

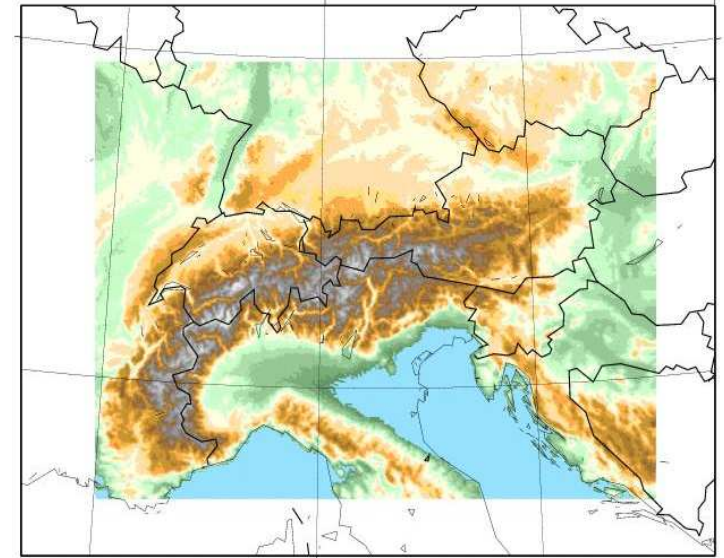
- ALADIN cy33, coupled with ALADIN-AUSTRIA
- 2.5km horizontal resolution, 60 levels in vertical
- 2 runs at 00,12UTC, up to 30h.

Assimilation in test

ALADIN-Austria data assimilation:

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

AROME-AUSTRIA Domain & Topography

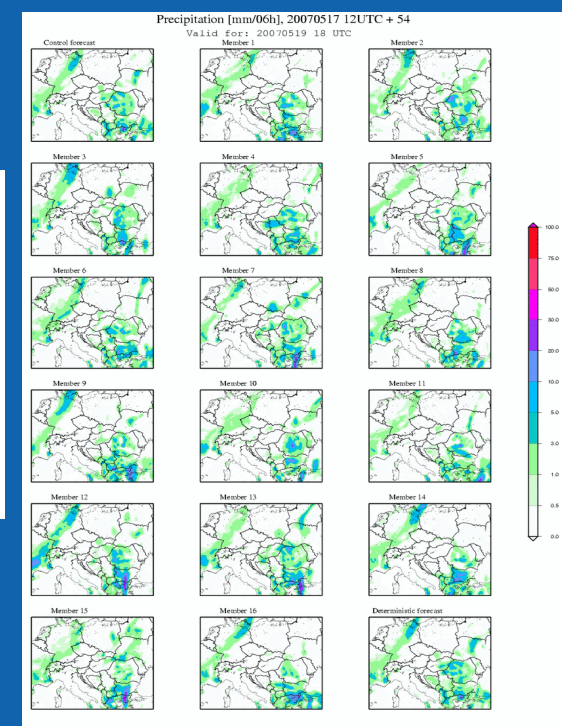
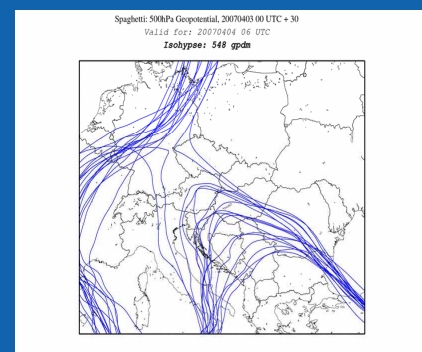
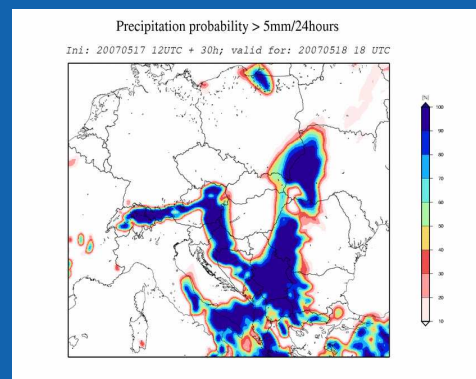
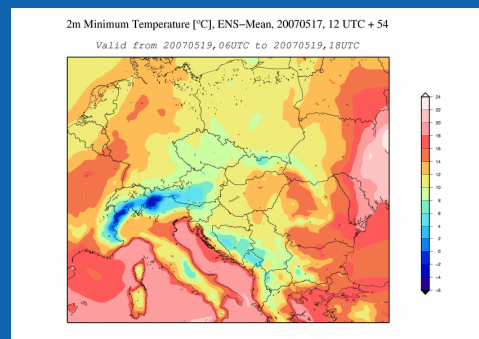
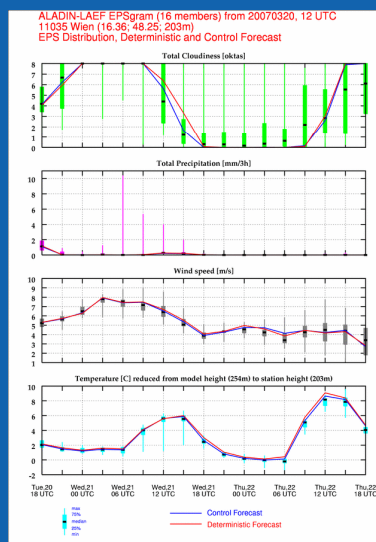
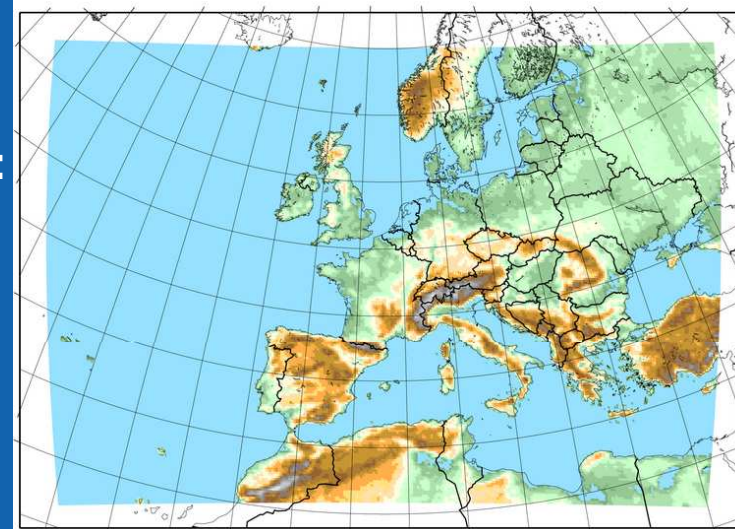


ALADIN-LAEF: operational

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, forecast up to 60h
- Products at MARS archiving for partners

ALADIN-LAEF Domain & Topography



Recent and ongoing R & D:

- Nowcasting INCA
- ALADIN-LAEF
- Surface data assimilation EKF/ASCAT
- Study on precipitation forecast over mountain with AROME
- International projects