## Report of GLAMEPS discussion

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## THE GLAMEPS CONCEPT

- Main objective: the establishment of a real-time operational grand ensemble prediction system
- In practice:
  - 100 EPS members or so
  - Around 20 km resolution
  - Large, common domain
  - Different versions and "dialects" of HIRLAM and ALADIN models
- Practical realization: two phases
  - Laboratory phase at ECMWF (2007-2008)
  - Distributed production stage (2008-2009)

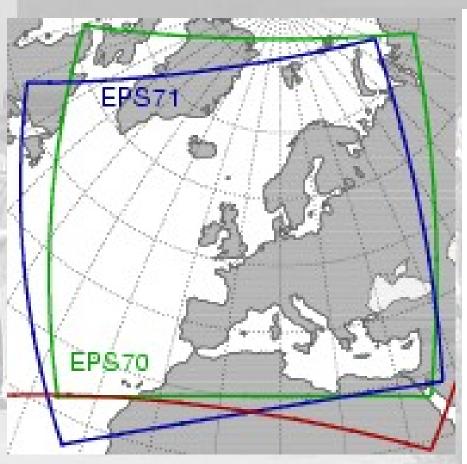
## **DISCUSSED ISSUES**

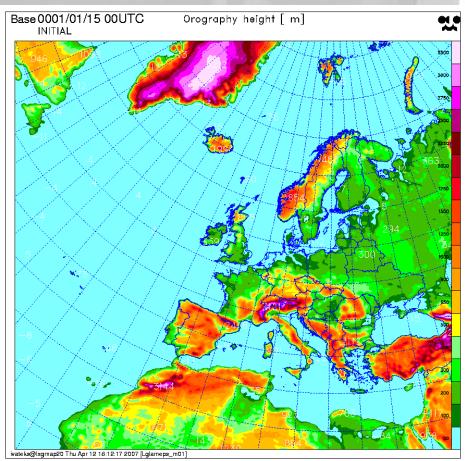
- Common integration and post-processing domain
- Common post-processing and verification package
- Ingredients of the grand ensemble for GLAMEPS-0

## **DOMAIN**

- Tentative "large" domain: 22km, 37 levels, 320 x 300 points
- Test domain: around 100km resolution, 60 x 60 points (to be defined for ALADIN)
- Post-processing domain: interpolation to a common grid (probably lat-lon)
  - To be defined in a later stage (working week in Spain)

## **HIRLAM and ALADIN domains**





## POST-PROCESSING and VERIFICATION PACKAGES

- Based on the INM system
- Extended to the use of ALADIN (FA) files
- Porting to ECGATE
- Automation and optimisation of procedures during a working week in Madrid anticipated in June

## **INGREDIENTS of GLAMEPS-0 (at ECMWF)**

- 1 TEPS/EPS producing 20 members
  - One European target domain
  - To be ready for summer
- 2 HIRLAM (with different physics) and 1 ALADIN version
- Test domain (coarse resolution: 60 x 60 points)
- Resulting a 60 members ensemble for technical tests
- Test period: few weeks during 2007 (higher resolution domain for case studies)

## **OTHER ISSUES**

- Archiving at ECMWF (ECTEMP): only presentation and verification data at that stage
- Scientific issues to be addressed parallelly and mostly after the building of the basic system (depending on the available manpower)
  - 3 target domains (TEPS)
  - Stochastic physics
  - Initial perturbations (singular vectors)

## **NEXT STEPS (1)**

- Finalization of the scripts and environment for HIRLAM (at ECMWF; Kai)
- Creation of the new target domain (TEPS, Inger-Lise)
- Building of the script system at ECMWF for ALADIN (based on the Austrian realisation; Stjep, Austrian team)

## **NEXT STEPS (2)**

- Finalisation of the post-processing and verification package: working week in Spain (anticipated for June; Carlos, Edit)
- Technical tests of the GLAMEPS-0 laboratory (all the ingredients are up and running for the coarse resolution system)



## **THANK YOU FOR YOUR ATTENTION!!**

# Comments from the participants in the discussion?

Questions, remarks?