

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)**

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?