Operational ALADIN configuration

- Model version: C10Y11
- Initial condition: for atmospheric (5.0L surface) and oceanic (0.05L surface)
- Horizontal resolution: 80 km (horizontal resolution) / 250 m (vertical resolution)
- Vertical levels: 30 levels
- Oceanic model: 11 hybrid levels
- Land-sea masking

Operational suite/technical aspects

- Torque job scheduler
- The system is based on the ALADIN limited area model and has 11 hybrid coordinates.
- One of the main efforts in the ensemble prediction is the estimation of the maximum of total energy of the main goal is to generate perturbations, which can increase the spread and the upper ones the RMSE of the ensemble mean. Period: 1 January 2010 to 30 April 2010.

Operational AROME configuration

- Model version: A10Y11
- 0.5 km horizontal resolution
- 40 km horizontal resolution
- Time production runs: 3 times per day
- Initial condition: from ALADIN
- 11 coupled cycling frequency
- Integration time: 6 hours
- To calculate the selected level fields we use the SB-L scheme over nature and Terrain-Advised Topography (TAT) over urban areas.
- AROME is a regional model over Hungary, it has been on production since February 2010. AROME is run during operational cycles with a grid spacing of 2 km. The model is compared with other available models (ALADIN, ECMWF).

Experiments with IBSA-Ags

- IBSA is being taken to the eastern DJF period. We are involved in the Land Carbon Information Service (LCIS) project. The goal is to model the February 2010, the model is used to model the area of the eastern DJF period. The model is based on the RCM model and it is being used to simulate the validation results of the model.
- The model is being used to simulate LP-IBSA over the area of the eastern DJF period. The model is being used to simulate the validation results of the model.
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Research on local perturbations in the ALADIN ensemble system

- The operational ALADIN EPS consists of integrating the ARPEGE EPS (based on PEARL03). It is the global system that the perturbations are generated by using singular vectors (SV) and an ensemble data assimilation (EDA) system. Although these perturbations can be built into a global system, they are implemented in the operational deterministic model. The perturbations are generated in the operational deterministic model by using the characteristics of the ensemble measurements. The perturbations are generated in the operational deterministic model by using the characteristics of the ensemble measurements.

First experiments with ALARO

- ALARO physics has been tested locally in Hungary. The newest developments related to ALARO physics were presented in the Czoch 2010 conference. In our operational deterministic model we have introduced perturbations that are generated by using the characteristics of the ensemble measurements.
- The perturbations are generated in the operational deterministic model by using the characteristics of the ensemble measurements. The perturbations are generated in the operational deterministic model by using the characteristics of the ensemble measurements.

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