



## Production focus in EURRA project

•A high quality, high resolution, consistent re-analysis data set •Emphasis on near surface properties (T2m, V10m, Rh2m) and precipitation

•Good spin-up property desirable due to production focus on analysis itself + short range forecast

•EURRA is also a good platform for study of a range of scientific issues

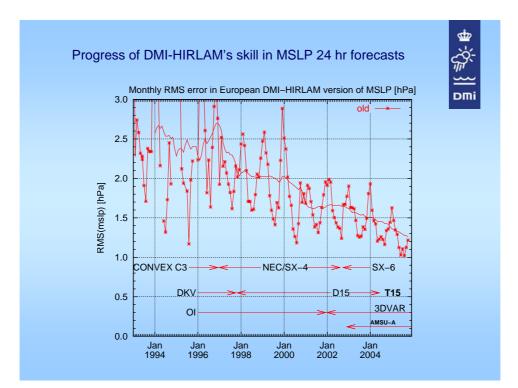
- -Data impact study
- -Observation platform study
- -Examination of assimilation technology (method, resolution...)
- -Study of nesting technique (global/regional, internal nesting)
- -Verification technique at high resolution evaluation

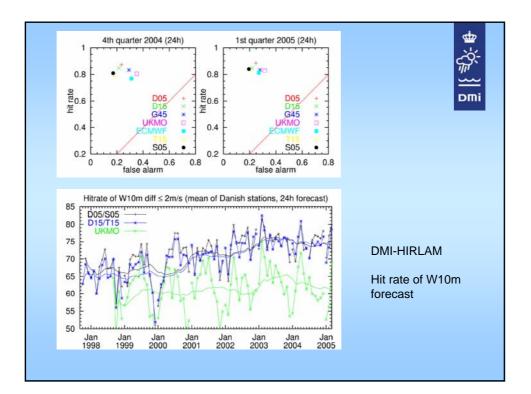


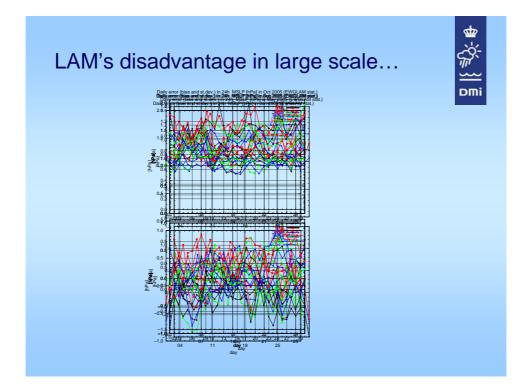
## DMI is well-geared to be a EURRA production partner:

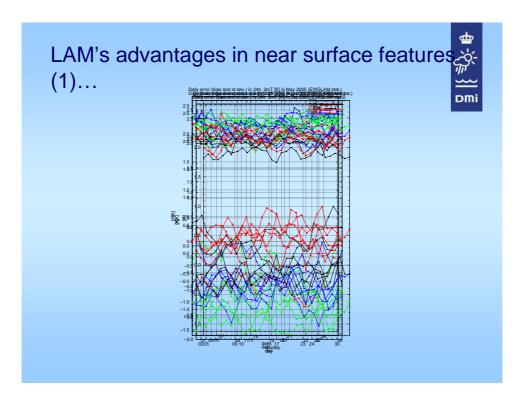


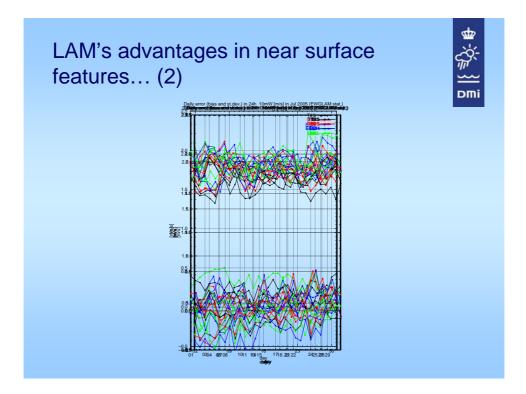
- A good LAM system
  - Very high quality forecasts for near surface parameters (T2m, V10m) and precipitation at high resolution
  - Long history of high resolution forecast from 15 km down to 5 km;
  - One of the pioneers in regional 3D-VAR
  - Ideal system for re-analysis production
    - Optional 4DVAR. 4D-VAR is targeted to be operational in near future, which provides well balanced, high temporal frequency analyses
    - A well-behaved moisture spin-up
- Good computation facility
- Experienced staff on regional re-analysis
  - Main development partner of HIRLAM VAR system
  - Participation of earlier projects such as BALTEX/NEWBALTEX
  - Expertise on model inter-comparison, energy and water budget study

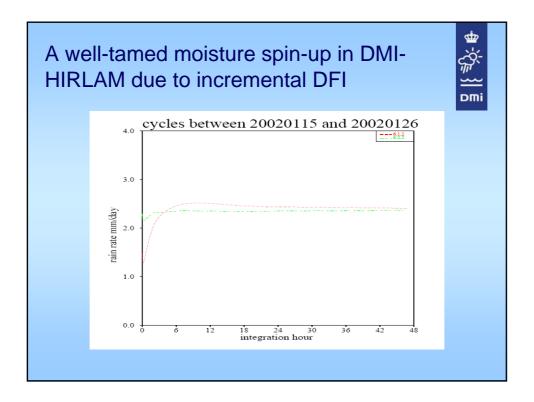


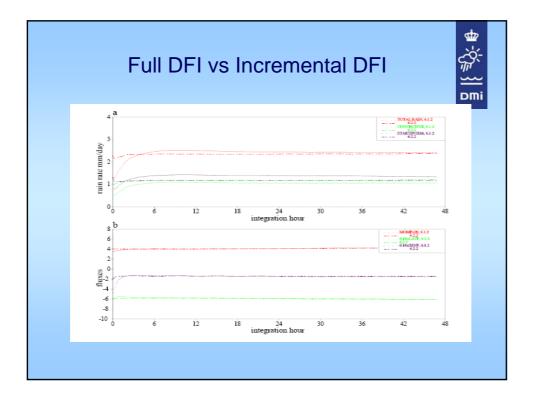












## DMI's participation to EURRA (1) : (As production partner)



## Data assimilation with HIRLAM:

- Downscaling forecast using interpolated ERA-40
- EURRA re-analysis with 4D-VAR at 30/10/2 km with HIRLAM and HIRLAM/ALADIN
- Contribution of local physiology/observation data when applicable
- Possibly a joint effort by several HIRLAM partners to carry out re-analysis
- Possibly a partner in an EURRA production chain together with global analysis and other regional analyses producers.

