Priority project « Advanced interpretation and verification of very high resolution models »
End of project:

September 2008
1. Prediction of weather parameters

1.1. Postprocessing for recognition of hail

1.2. Temperature and dew point Kalman filtering on the COSMO LEPS
PP Interpretation and verification of VHRM

2. Verification of precipitation in very high resolution model

2.1. Application and evaluation of the neighbourhood method and eventually other fuzzy methods on the COSMO-DE.

2.2. Application and evaluation of the neighbourhood method on the COSMO-S2: verification

❖ Deliverables: report, implementation of products

2.3. Organise workshop in (early) spring 2008 (COSMO, SRNWP?) Choice of one method, definition of the related verification score(s) (maximum 3), definition of the related products.

❖ Deliverables: ‘1 Method’ (short report & recommendation)

2.4. Implementation of the scores and products defined in 2.5.

2.5. Write report and/or publication

❖ Deliverables: report, recommendation of one (few) score, definition of products
3. Hydrological applications

3.1. Compare “7km → hydro” with “7km → postprocessing → hydro
   • Deliverables: report, provision of software

3.2. Compare “7km → hydro” with “7km → postprocessing → hydro
   • Deliverables: report, provision of software

3.3. Snow cover: investigate relationships between snow analysis, new snow deposition / melting model and meteorological variables: T, Td,… Influence to hydrological outflow
   • Deliverables: installation and validation of new scheme, report
Previously, there was a workshop with the same project in April 2007. You may want to see the minutes from that event.
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« Workshop » in December 2007 with Beth Ebert

• Avoid « leaking » scores
• Use illustrative and understandable scores
• Try at least upscaling and fraction skill score
• Possibility to think of products:
  • Upscaling \( \Leftrightarrow \) regional mean
  • Fraction skill score \( \Leftrightarrow \) probability to exceed some threshold in neighbourhood
• 2 km “better” than 7km models…
• …on quite large scale (30-50 km)
PP Interpretation and verification of VHRM

COSMO-2 Forecast for: Wed 21 May 2008 18 UTC
Mean: 0.223

Version: forecasts 2km (847)
Run: 21.05.2008 00UTC+18h

Quelle / Source: MeteoSwiss
PP Interpretation and verification of VHRM

COSMO-7 Forecast for: Wed 21 May 2008 18 UTC
3h Sum of precipitation in mm Mean: 0.421
Version: forecasts 7km (847)
Run: 21.05.2008 00UTC+18h

Quelle / Source: MeteoSwiss
Goals of this workshop

- Exchange information on the work done in the since september 2007, incl. MAP DOP
- Preliminary conclusions / recommendations
- Some reporting
- Planning of work until September 2008
- Plan the redaction of the final report