

Swiss Confederation

Numerical Weather Prediction at MeteoSwiss

31st EWGLAM meeting

28th September 2009

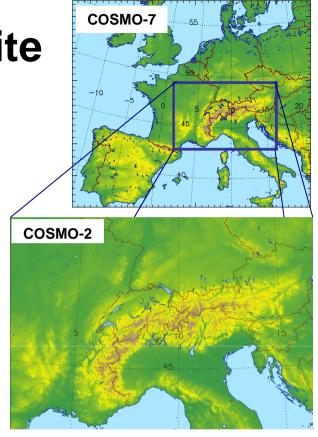
Status of operational suite

COSMO-7:

6.6km, 393x338x60 GP, 3 x 72h fcst /day

COSMO-2:

2.2km, 520x350x60 GP, 8 x 24h fcst /day own assimilation cycle, cut-off 45 min





Production at CSCS, Manno

Main machine: Cray XT4, 440 dual cores

Fall-back: Cray XT3, 540 dual cores

Service nodes used for front-end functions

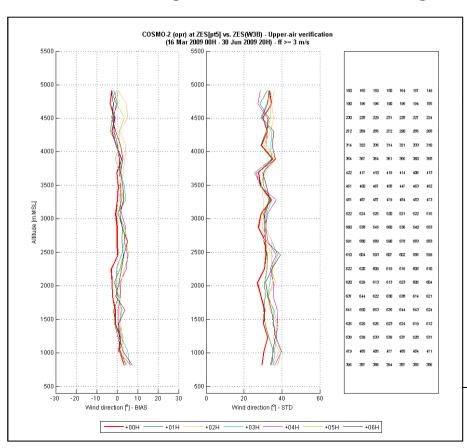
Separate servers for DB

Validation of COSMO-2 with independent

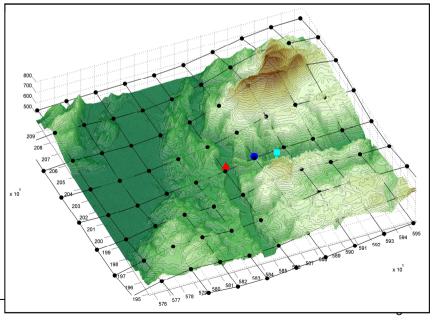
wind profiler data

Measurement campaign of 3.5 months

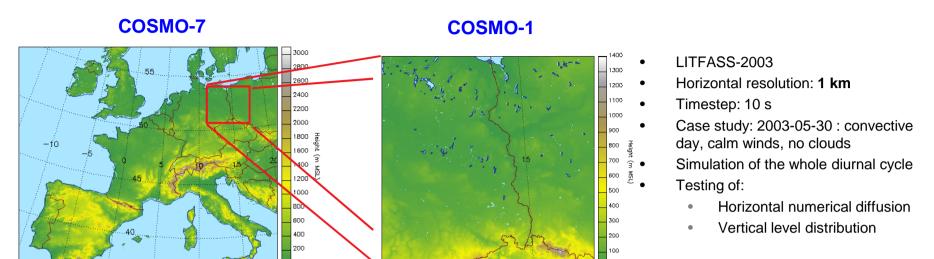
- Complex orography
- •Results less good than with soundings







COSMO runs at 1 km horizontal resolution



Sensitivity to horizontal diffusion:

