



COSMO GM, Sibiu, 2-6 September 2013

Priority Task - NWP Meteorological Test Suite Plan

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Outline

Goal

Basic information

Tasks

Outlook of Future Steps

Goal

- Build up a software environment to perform carefully-controlled and rigorous testing
 - \supset calculation of verification statistics for any COSMO model test - version
- Offer necessary information on the model forecasting performance
- Provide the COSMO community with standards against which the impacts of new developments in the model should be evaluated
- Benchmark to monitor the progress of mesoscale forecast improvement (periodic testing as COSMO evolves)

Basic information

- Duration: 09/2013 - 09.2014 \simeq 0.8 FTE
- In the frame of WG5
- ECMWF computer resources
- Participating scientists
 - Adriano RASPANTI (USAM)
 - Amalia IRIZA (NMA)
 - Bogdan Maco (NMA)
 - Dimitra Boucouvala (HNMS)
 - Flora GOFA (HNMS)
 - Rodica Claudia DUMITRACHE (NMA)

Tasks

- ① Task 1: COSMO Model Installation and Implementation
 - Subtask 1.1: Development of the Test Suite (NMA)
 - Subtask 1.2: Model Implementation and Set-up of Appropriate Tests (NMA)
- ② Task 2: Model Outputs verification
 - Subtask 2.1: Installation of VERSUS Software (USAM)
 - Subtask 2.2: Configuration of the System for Semi-Automatic Production of Statistical Results (HNMS)
- ③ Task 3: Documentation and Compliance with SCM Standards (NMA, USAM, HNMS)

Outlook of Future Steps

- Subtasks of this year include a first step of the development of the tools needed for a test bed (in compliance with SMC guidelines)
- Continuation → extend the testing methods to include:
 - a higher resolution version of the model (2.8 km)
 - use of various assimilation cycles
 - testing of performance under extreme weather events
 - other verification activities defined by the needs of the Consortium

Thank you for your attention!