Meso-NH

The Meso-NH community is currently working on :

- the parallelization of PREP in case of nested models in Meso-NH
- the coupling between the atmosphere and a ocean model

The next Meso-NH version (5.2) is sheduled for the 3rd quarter of 2015. It is hoped to include SURFEX V8.

Remarks on Fortran 2003 features and optimization :

- It should be ensured that this type of programming "object-oriented" = items 9 Hirlam poses no performance problems (including the hybrid parallelization MPI+OpenMP or MPI+OpenACC)
- The tests of the IBM and PGI compilators should be included in the tests. Note that IBM and NVIDI/PGI announced 2 pre-exaflopic machines. http://www.teratec.eu/actu/calcul/Nvidia_Coral_White_Paper_Final_3_1.pdf
- It is also suggested to introduce the CONTIGUOUS attribute from Fortran2008 that is very efficient in code optimisation for array arguments.