ALARO-10 Discussion

Synthesis

Macroview

- There is a consensus on the principle of the way to build ALARO-10
- There is a discussion on the environment in which we take particular decisions to realize this way:
  - Computational roadmap
  - Which ALADIN reference to take for the physics
  - Politics-science interaction: what is the right level?
- The 'wait and see' stand-by option sometimes expressed in Oslo was not reiterated in any answer and thus may not be further considered

Proposal on ALARO-10: consensus

- 'not to tune our way out' but to understand the problem
- The best way: to put selectively MESO-NH routines into ALADIN (tool-box) and keep track on their effects
- Transparent, step-wise and modular solution gives more space to specific developments to cure current forecast problems (e.g. stratus)

Discussion Issues

- Computational roadmap:
  - To have an updated estimate of AROME cost for its meaningful application will be useful;
  - Views diverge from very pessimistic to very optimistic as regards its accessibility.

  Cheaper ALARO-10 useful in any case

  Lack of MESO-NH physics optimization would generally be a problem for operational applications

Discussion Issues

- Reference problem:
  - What will be ALADIN/FRANCE physics?
  - If different from the ALARO-10 one, when existing, which one will be the maintenance's reference?
  - Will the interface encompass also the ARPEGE physics, in order that more possibilities exist, without falling back in the trap of incompatibility?

Discussion Issues

- Political and scientific balance:
  - Scientific doubts existed before the politically decided ALARO trial was concretised (we should maybe had expressed them better …..)
  - Next time we should have more proper discussions within the Consortium for such an important decision: however given the limited resources we cannot explore too many options
  - Options should be preferably based on physical and technical considerations first

  Better balanced cooperation between ALADINISTS and AROMISTS is highly recommended

What is the most important lesson from all this story?