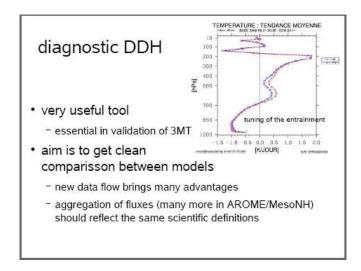
## A visit report

Neva Pristov, EARS - Slovenia Prague, 15 - 17 September 2008

#### The tasks of the 3 days visits were:

- to learn about DDH problematic in ALARO and to prepare the presentation on DDH for the "convergence days meeting" in Toulouse (24-25 september 2008).
- to discuss about the work and plans linked with ALARO5 project.
- to explain Tomas Kral the method used for the computation of the NER 'statistical weights'.
  Together we successfully repeated the computation procedure.
  Tomas Kral has later upgraded the method and recomputed the weights with an input produced on the basis of the improved basic gaseous transmission functions.

#### Presentation:



## diagnostic DDH

- · Recall of some 'good' choices
  - time and space averaged budget approach
  - mass based not volume based (suitable for pressure coordinate system)
  - two independent informations for computation of the residual part

## diagnostic DDH

Proposal for further development

- delta\_m=1 some corrections needed
- · computation of the dynamical contribution
  - also for hydrometeors
  - LSPRT=T & microphysics species : grad(T) is not correct
  - Semi-Lagrangian (instead of Eulerian)
  - heat source/sink projection on pressure (in NH)

# diagnostic DDH

- Conclusions
  - new data flow is a good contribution continuation
  - novelties are addition to current diagnostic (ascending compatibility, e.g. for budget residuals should not be lost)
  - DDH is needed and developments, improvements should continue