

Report from session 1, DA

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Summary

- All presentations were given in plenary sessions, and
 - All presentations (and posters) will be available on Hirlam/Aladin web site(s)
-): Will not go into detail about content

Classification of presentations

- Surface assimilation: 1 (+1 poster)
- Observations (J_o issues): 6 (+1)
- Background (J_b issues): 2 (+1)
- Local implementation issues: 1 (+4)

Discussion (continued)

- At present, the assimilation process is divided into three parts:
- Surface assimilation
- Upper air assimilation (3D/4D)
- Initialization (DFI or $J_{c,DFI}$)
- Can (some of) these be unified?
- Can DFI be detrimental (at high res.)?

Outlook

- Where do we have the greatest potential for improvement of the initial state?
- More observation types and better observation operators (incl. 4D-Var)?
- Better modelling of background error structures?
- How to treat high resolution and small areas?