Closing session

Monday: Data assimilation and Surface sessions

Data assimilation:
- Towards (sub)hourly cycling and the nowcasting range
- Mode-S increased usage and temperature quality improvement… but much less ABO data at the moment…
- 3/4DEnVar and DAVAI developments at MF in OOPS context
- Good to see the DAsKIT progress!

Surface
- Big session this time!
- Increased work on satellite surface observations in (surface) DA
- ECOCLIMAP-SG: more detailed and more realistic, but implementing it certainly does not come for free…
- Increased focus on diagnostics, translation from surface to screen level

Tuesday: System, Dynamics and EPS sessions

System:
All presentations reflecting major outcomes of system part of strategy meeting:
- Emphasis on need for a more efficient, continuous and distributed phasing process
- and a more shared and accessible environment
- Testing code efficiency on new architectures
- Our new reality: working on multiple cycles simultaneously
- DAVAI can become crucial tool in phasing process, but also outside MF?

Dynamics:
- "Double" good news from SPDY2:
  "Non-spectral solver feasible, meteorological results OK, technical performance excellent"
  and at the same time
   "the spectral transforms may not be such a big problem for scalability after all"

EPS:
- Good progress in operationalisation of A-LAEF and C-LAEF, good performance in high
        impact weather cases

Wednesday: Physics and Verification sessions

Physics:
- Precipitation bias related to interpolators used in SL
- The "elephant and blind men" challenge for physics development
- Benefits (and costs) of more realistic treatment of aerosols for radiation and clouds/precipitation
- More focus on postprocessing, esp. close to surface; but how to validate??
- Fog side meeting: exchange of experiences, in future on shared wiki page. Interest in intercomparison of physics to discover problem causes. Physical meeting on this in late autumn?

Verification:
- HARP: becoming more and more mature, when can it be considered "ready" as common tool?
- Developer – forecaster interaction: useful for improved use of the model

Thursday: Application session

Applications:

- Wind energy cutout problem: quite a challenge for our high resolution models/
        ensembles

- Very interesting work on high-res ocean/wave-atmosphere coupling for TC's

- HCLIM: Surprisingly good performance of convection-resolving model at coarse
        resolutions in climate mode!
        Regional climate community as user AND co-developer of our model code

General experiences

- A web conference for ~120- 130 people: it can be done!

- Side meetings: mostly consisting of (shorter) topical presentations. Discussion may be difficult in this format (surface side-meeting) or can prove efficient for more focussed discussions (fog).

- Poster session: introduction of posters by authors, something to be continued?

- Many many thanks to Patricia for the preparatory information and instructions, testing options and moderator role during the conference!

ALADIN HIRLAM
All Staff Workshop

22-26 March or 12-16 April 2021
Ljubljana, Slovenia

ARSO METEO