

Side-meeting Surface

Patrick Samuelson, SMHI 2:47 PM

<https://docs.google.com/document/d/15tOO2O365a0WMtD6VYPqrTFA774Rc8ELjbIZU192Pog/edit?usp=sharing>

Stefan Schneider (ZAMG) 3:07 PM

@working weeks: will the existing HIRLAM and LACE working weeks remain or are there plans to have just ACCORD working weeks in the future?

Dmitrii Mironov 3:11 PM

Patrick, may I make a comment/suggestion as an external observer? Maybe our COSMO experience may prove to be helpful.

Dmitrii Mironov 3:14 PM

I have problems with Blue Jeans. Let me try to fix it. :-)

Jeanette Onvlee 3:18 PM

There are various urban networks, even NRT. The first problem is getting access, the second is QC. But we do need to work on getting such data systematically and learn how to use them!

Alexandre M. 3:24 PM

In 48T1 will be Surfex v8.1+ already

Jeanette Onvlee 3:25 PM

The problem then may be the +

Patrick Le Moigne 3:25 PM

So why not start from v8.1? Without +

Alexandre M.3:26 PM

Yes, but this 8.1+ is identified as such with a tag in the Surfex repository, with a branch starting from it in which have been collected already the phasing modifications towards 48T1

Claude Fischer3:26 PM

Indeed, like Patrick says, the "+"s are not the same in 48T1 and 46H1

Alexandre M.3:27 PM

The idea being that we have an exact equivalent of the Surfex that is in 48T1 in a branch in the officila Surfex repo

Claude Fischer3:33 PM

OK Alexandre, so we have a kind of "v8.1++" branch in the Surfex repo, where the 2nd "+" is feedback from NWP/CY48T1 , haven't we ?

seity3:34 PM

Yes, and we have to update it once 48t1 will be declared !

Alexandre M.3:35 PM

exactly

Alexandre M.3:36 PM

and potentially update this branch again, if for example, a report of the Surfex modifications that are in 46h1 can enter a potential 48T2 or so

Rafiq3:49 PM

is there a constrain for not running crocus inline? is this related to time computing?

Florian Meier3:50 PM

I think it is computationally too expensive

Rafiq3:51 PM

ook thanks Florian!

Florian Meier3:52 PM

Bogdan, is there a report on the CHN coefficient bug somewhere?

Patrick Le Moigne3:52 PM

@rafiq: there is also the problem that snow layers can appear and vanish in a time step. making the model not fully conservative.

Rafiq3:54 PM

@Patrick, ok and this feature is not in the offline setup due to the forcing that drive the model output right?

Patrick Le Moigne3:55 PM

yes

Jure Cedilnik ARSO3:57 PM

@Patrick: is there any development on Crocus snow D? Is there someone we could contact?

*snow DA

Patrick Le Moigne4:06 PM

@Jure: there are DA activities using CROCUS. For instance people at CEN have worked on assimilation of albedo, satellite reflectances, snow height, SWE, etc. You can contact Fatima Karbou at [meteo.fr](mailto:fatima.karbou@meteo.fr) or Matthieu Lafaysse at [meteo.fr](mailto:matthieu.lafaysse@meteo.fr)

Kristian4:11 PM

Thank you Katya for this very good plan!

Dmitrii Mironov4:25 PM

Patrick, if time permits, I would ask two specific questions.

Trygve Aspelien4:28 PM

We will go pre-operational in May

Jeanette Onvlee4:30 PM

@Dmitrii: shall we just send you our RWP? The coupling with surface plans are in there...

Rafiq4:33 PM

what is the near term plan for coupled system if any?

Rafiq4:36 PM

maybe satellite product of interface variables such as LST...etc can be done for the CDA as a first step?

Alena Trojakova4:37 PM

What kind of balances would you use in your B matrix for coupled (upper-air & surface) DA ?

Ekaterina4:42 PM

@Alena: this is not about balances. This is about coupling. For example, if we have the wrong t2m forecast, we should be able to correct both soil and cloudiness, because both can be "guilty".

Florian Meier4:42 PM

I think that is the crucial question as 2m increment should be also strongly depend on orography, soil cover etc., which is not represented in spectral B so far or only very implicitly

Laura Rontu4:42 PM

@Yann, Alexandre A technical side question: is ororad in this 8.1+ ? Got lost in the versions already ...

Alexandre M.4:42 PM

@Laura: yes

ororad is part of the + in 8.1+

Laura Rontu4:43 PM

Thanks! Some day I could make a review of the implementation as agreed two years ago.

Trygve Aspelien4:58 PM

Snow plots are very familiar:-) If you have forest you also need MEB