

Chat during SURFACE session

Benedikt Strajnar9:17 AM

When using Netatmo for surface DA, have you checked/tuned the bkg. error correlation lengthscale?

Laura Rontu9:18 AM

Perhaps you mean the radius of influence for OI analysis?

Benedikt Strajnar9:19 AM

Yes, thank you.

Maria Monteiro9:19 AM

Which quality control do you apply to this type of observations ?

Alena Trojakova9:19 AM

What is an added value of pysurfes (python interface) to the current solution ? Is it not possible to use NetAtmo data without it ?

Roger Randriamampianina9:21 AM

@Maria: I think they use the TITAN QC in PySURFEX, unless Trygve objects.

Jeanette Onvlee9:22 AM

Yes, this was also said by Patrick.

Roger Randriamampianina9:22 AM

@Alena: Yesterday Daniel showed comparison of these two schemes.

Maria Monteiro9:22 AM

OK, so does not apply to CANARI, then... thanks !!!!

Jeanette Onvlee9:23 AM

@Alena: Pysurfex is indeed needed because in CANARI it is not possible to treat the NetAtmo stations as something distinct from SYNOP. But they do need to be treated quite differently in various ways.

Roger Randriamampianina9:23 AM

@Maria: yes not through CANARI

Patrick Samuelson, SMHI9:24 AM

The developer of titanlib gave a presentataion here a while ago: https://docs.google.com/presentation/d/18sICfb8mb25yCxnaviZvHAGjkiZaY7inX3e-6PMmAOQ/edit#slide=id.gb3dbeb241_2_278

Maria Monteiro9:24 AM

Many thanks for all the info 😊

Alena Trojakova9:25 AM

@Jeanette OK, thanks

Patrick Samuelson, SMHI9:25 AM

The QC includes e.g. a spatacl consiteny chech and buddy check.

Dmitrii Mironov9:26 AM

(1) I assume the grid spacing in the multi-layer snow scheme is determined dynamically? How do you handle think snow? Is there a minimum layer thickness?

Roel Stappers9:26 AM

In the upper air DA of Netatmo (surface pressure only) we introduced a new code type to able to distinguish Netatmo from SYNOP (so we can bias correct Netatmo only).

Dmitrii Mironov9:26 AM

(2) How do you parameterize snow density and (importantly!) snow heat conductivity?

Patrick Samuelson, SMHI9:27 AM

pySURFEX with titanlib allows us to treat different observations in different ways. Thus, more aggressive QC is applied to the lower quality Netatmo observations than to SYNOP.

Alena Trojakova9:29 AM

@Patrik Thanks for your clarification.

Patrick Samuelson, SMHI9:30 AM

@Dmitrii: The 12-layer snow is described here doi:10.5194/tc-10-853-2016. Thin snow layers at the top and bottom, thick in the middle.

Stefan Schneider (ZAMG)9:31 AM

Asmund, how did you decide to use wg2-wg6 and tg1-2 as soil layers to be affected by the assimilation (and not some other layers)?

Camille9:32 AM

Canari can also handle obstypes and codetypes to distinguish between different types of observations and apply a different treatment to each of them

Daniel Santos Muñoz9:33 AM

@Alena @Maria in my presentation is the first results of the comparison PYSURFEX = pysurfex + ANASURF=0I; CANARI = CANARI_OI_MAIN and PYSURFEX bufr = pysurfex + ANASURf = OI only Bufr

Ekaterina9:34 AM

Asmund, what about computational efficiency? You increase the complexity of the schemes a lot!

Daniel Santos Muñoz9:34 AM

@Trygve is working on a more long term comparisons

Ekaterina9:46 AM

The Desrosier method is developed for variational methods. How you applied it with OI?

What is the resolution of SEVIRI? Did you applied any thinning?

Roger Randriamampianina9:47 AM

@Camile: Thanks for the very interesting results. How the "weak coupling" was performed in your study?

Ekaterina9:47 AM

Thank you for the very interesting presentation!

Helga Toth9:50 AM

Camille do you want to introduce this obs. into the operational siute?

Stefan Schneider (ZAMG)9:50 AM

Camille, which soil scheme is used for the experiments?

Isabel Monteiro (IPMA)9:50 AM

Good morning, @Camile: didi you use the 15 min LST-SEVIRI from the LSASAF? (and ~4/5km spatial resol over France). Do you have an explanation for the nigh/day differences?

Dmitrii Mironov9:53 AM

Thanks for the info, Patrick.

Isabel Monteiro (IPMA)9:57 AM

Ok, shadows in the domain, during the day, makes sense. Thanks

Morten Køltzow9:57 AM

If you assimilate T2m SYNOP, maybe a larger impact can be found away from the SYNOPs if you also use them to verify?

Alena Trojakova9:57 AM

Do you perform a separate analysis for LST in CANARI ?

Roger Randriamampianina9:58 AM

Thanks a lot Camille!

Ekaterina9:59 AM

@Morten: verification is done against data at different time, comparing with data for assimilation.

Camille10:00 AM

yes, we add the LST variable in Canari (in addition to T2m and Hu2m)

Alena Trojakova10:01 AM

Thanks ! Very nice presentation :)

Stefan Schneider (ZAMG)10:01 AM

Thanks!

Camille10:02 AM

Thanks! Here is Zied article: <https://www.mdpi.com/2072-4292/11/20/2371>

Florian Meier10:19 AM

Do you use any 923 climatology in PREP?

Guðrún Nína Petersen10:19 AM

Thanks for an interesting talk!

Maria Derkova10:19 AM

In which cycle was the correction in CANARI to reject observations in case of inconsistency with LSM implemented?

martina tudor10:21 AM

thank you Katja

Florian Meier10:21 AM

Thank you?

Claude Fischer10:21 AM

thank you Katia for this interesting talk indeed

Florian Meier10:25 AM

I think that we do not realise the problem in LACE does not mean that it does not exist. We do not run snow analysis and even if, we have fewer lakes of critical size (the big ones do freeze only rarely, the small ones do not matter on 2km) and only rarely seaice.

Roger Randriamampianina10:38 AM

Indeed very interesting talk. I think snow analysis shows well the issue, but similar problem is/can be see in upper-air analysis with scatterometer (ice edge, cost line) and radiance (land/sea/lake) assimilation.

etra Smolikova10:50 AM

Side meeting on dynamics today at 14:35 at <https://bluejeans.com/442449128>.

martina tudor10:50 AM

thank you Petra and Patricia

Petra Smolikova10:51 AM

Please feel free to join us at the dynamics side meeting.

Me10:52 AM

I will send a message to all participants, in order to let know also people who might not be attending the meeting today

martina tudor11:08 AM

question

did you use Antifibrillation scheme in Alaro

with Toucans

af scheme is somehow making fibrillations in Surfex

Radmila 11:17 AM

In TOUCANS the AF is not necessary any more.

Rafiq 11:18 AM

yes Radmila thanks

Dmitrii Mironov 11:25 AM

Processes in the ocean seem to be fast... What is the relative importance of vertical and horizontal transport/mixing in the ocean? In other words, how important is the advection in the ocean for the short-to-medium range NWP?

Benedikt Strajnar 11:27 AM

Whitout the DA for the ocean component, how do you plan to implement the cycling with the coupled system in time?

Dmitrii Mironov 11:28 AM

Thank you!

Stefan Schneider (ZAMG) 11:29 AM

Cindy, what is the computational cost of the models (NEMO, WW3)?

Maria Monteiro 11:29 AM

would it be importat for coastal regions ? for istance, coatsal fog ?