

2019 DAsKIT: joint discussion

2019DasKIT sessions' summary:

- 1. 4/8 DAsKIT countries have shown validation results on surface DA.**
- 2. scores (CY40T1) seem to indicate surface DA has an impact over T2M and H2M: more positive to H2M than for T2M. The impact over the V10M depends on lowest model level.**
- 3. a Summer scores degradation on T2M and H2M, at the model initialization (with SURFEX), at CY40T1 was discussed: the diagnostic of these parameters at the initial time does not seem to be consistent with its prognostics at the integration time steps and this should be properly understood.**
- 4. LNOTS_T flag at the coupling namelists (CY40T1) has an impact over screen level parameter fields when running the model by dynamical adaptation (in comparison with CY38). Some preliminary results were shown for a Summer season (it results on a cooling of initial conditions diagnostics). The effect of this flag seems to arrive from the lateral boundaries since it is revealed at each time step but it should be studied.**

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- 5. diagnostic tools/actions, specific for the analysis of the Surface DA KIT, based on the A-H common Data Assimilation training available for the website at <https://hirlam.org/trac/wiki/HarmonieSystemDocumentation/Training/HarmonieSystemTraining2019>, were prepared and shared in beaufix.**
- 6. a common action on AMDAR pre-processing took place, based on the experience of DAsKIT colleagues (Algeria and Morocco); an application of the tool bufr_filter was experienced as well as the technique for back-phasing.**
- 7. a set of scripts on CY40T1 for combined surface+3D-Var (from Maté Mile, OMSZ) as shared in beaufix in order to allow DAsKIT to start learning from it and it should be ported to CY43T2 (Questions for LACE: for TEMP pre-processing do we keep the same rules to remove duplications as in SYNOP ? is it straightforward TEMP preprocessing with BATOR in CY43 ? and AMDAR in CY43, do we still to back-phase it in CY43 ? which kind of problems to; expected during the porting of BATOR ? is it too ambitious to start immediately with CY43; which other issues ?).**

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- 8. a review on B-matrix computation was provided by DAsKIT colleagues (Morocco and Tunisia); besides, the studies of Jk over Tunisia Mediterranean region were announced (Questions: how to better take into account seasonal B-matrix in operations ?).**
- 9. the progress on the latest developments of the HARP verification tool was reported and the Rfa tool to handle FA files was demonstrated after being ported to beaufix.**
- 10. a list of questions on the code progress was prepared to Météo-France.**