

LACE DA Working Days Budapest, 22 September 2016

OI_main/Portugal: preliminary scores... (questions and problems)

Maria Monteiro



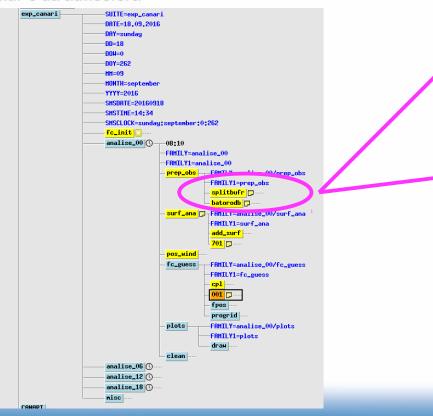
Main points:

SYNOP data pre-processing Experiment settings Preliminary scores



1. SYNOP data pre-processing

OBS: "regionally" exchanged SYNOP's under WMO BUFR template GOAL: to remove roughly coded data, corrections and duplicates TASK



splitbufr:(i) multisubset-split (@Trojakova)(ii) prep1bufr(iii) ftlcorr

batorodb:

bator_decodbufr_mod.F90 (@Guillaume) WMO BUFR \rightarrow ODB (see LACE report)

With the support of CHMI and M-F

Observação: 336 Estacões ipma 20160719 12 UTC 8929 800038090 07 8047₀₄₈ instituto português do mar e da atmosfera 8165 8171815973 8632 8633 **644**3 8146 8166 8238 8240 8217 8219 8685 8568 SYNOP data 8251 8252 40 ° N 0.25 8812 coverage over the 8261 8263 8264 8271 **Iberian Peninsula** 8282 8290 8330 8331 8333 8278 78 (thanks to AEMET) 8414 8419 0.603 10 0°

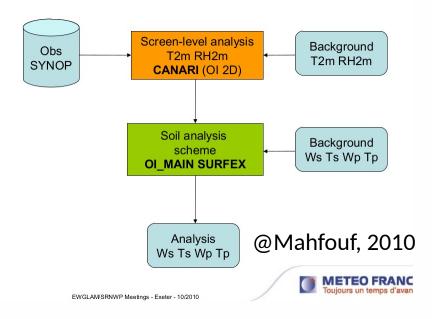


2. Experiment settings

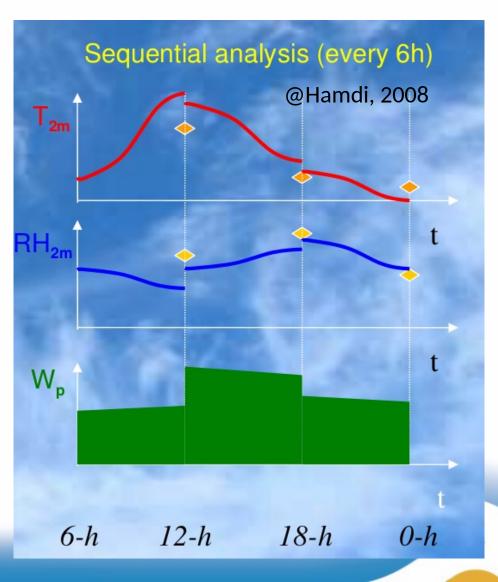
Ol_main (Giard and Bazile 2000)

mar e da atmosfera

Local version: CY38 (export) – AROME (2,5km), 46 levels

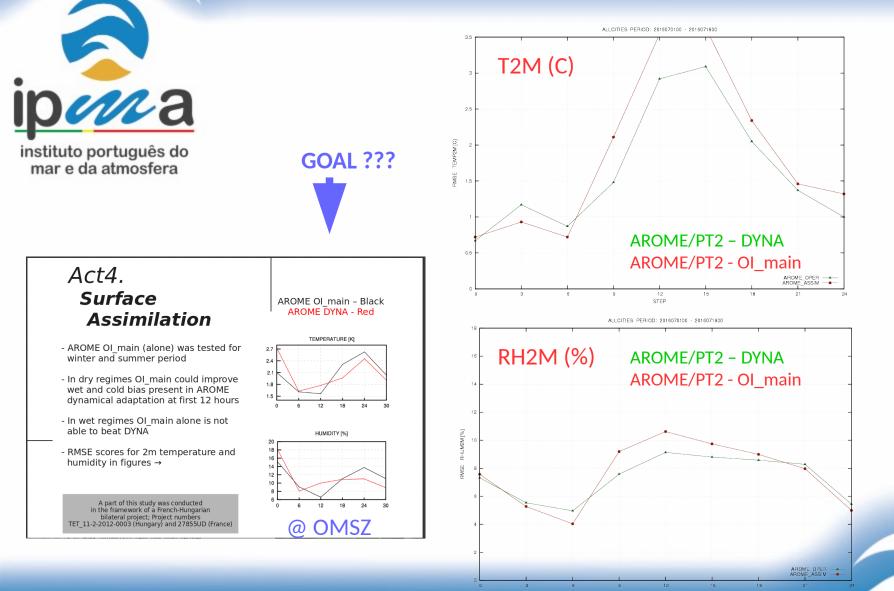


With the support of Météo-France



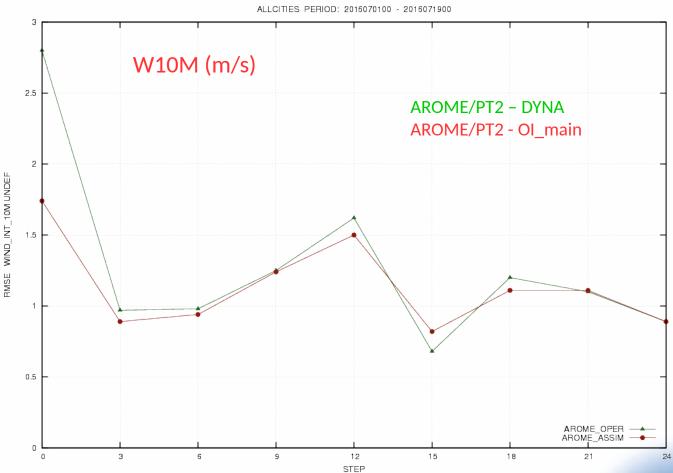
3. Preliminary scores

20-day Summer (RMSE) score (~100 stations)





20-day Summer (RMSE) score (~100 stations)



On-going outlook on (operational) DA activities in Portugal



Local installations :
CY38T1 (export) → actual operational system
CY38H1.1 → scripting system working; conf 927 and 001
implemented but not used

• Implementation of a local 6h cycling OI_MAIN data assimilation system (SYNOP); under test (pre-processing is being improved)

Up to end of 2016

 To validate the OI_MAIN system by checking the impact on the 24h model integration

• To validate a new HARMONIE experiment at ECMWF for two seasons but using the 3 Portuguese radars under OPERA (with the "BALTRAD" pre-processing)

• To write the SMS/XCDP scripting system for the 3D-Var assimilation (TEMP)



Thanks for your attention !







