



STATUS OF OF MEC-RFDBK IMPLEMENTATION AT COMET

Francesco Batignani, Nicola Zaccariello, Emanuele Regoli, Valerio Cardinali, Francesca Marcucci, Antonio Vocino







OUTLINE



- Current national setup
- Open issues
- Future developments







National setup: OBS chain

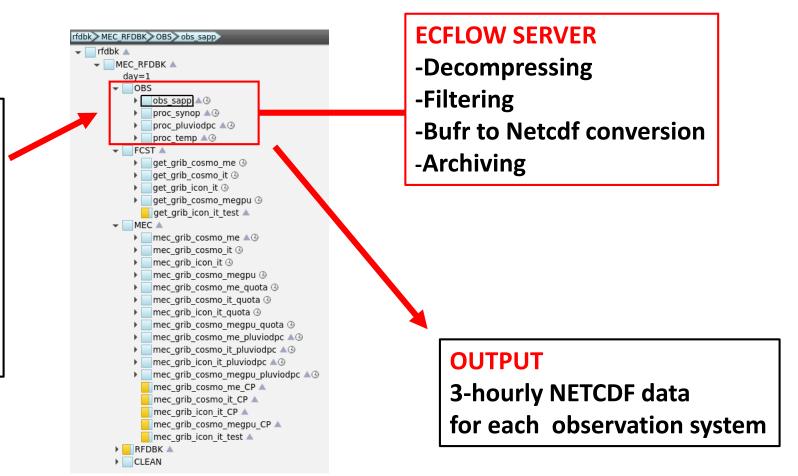




-SYNOP

-TEMP

-CIVIL PROTECTION DEPARTMENT RAINGAUGES NETWORK









National setup: FCST chain





-COSMO-ME

-COSMO-ME (GPU)

-COSMO-IT

-ICON-IT



ECFLOW SERVER

- -Decompressing
- -Filtering (Areal, Parameters)
- -Time step splitting
- -Partial archiving (real time production, CP)

OUTPUT

3-hourly processed 00 UTC run for each model













3-hourly NETCDF data for each observation system

FCST INPUT

3-hourly processed 00 UTC run for each model



ECFLOW SERVER

- -Running MEC
- -Archiving (real time production, CP)

OUTPUT

3-hourly Feedback Files for each model and observation system + FF with Common dataset







National setup:



FF Processing and graphical output chain

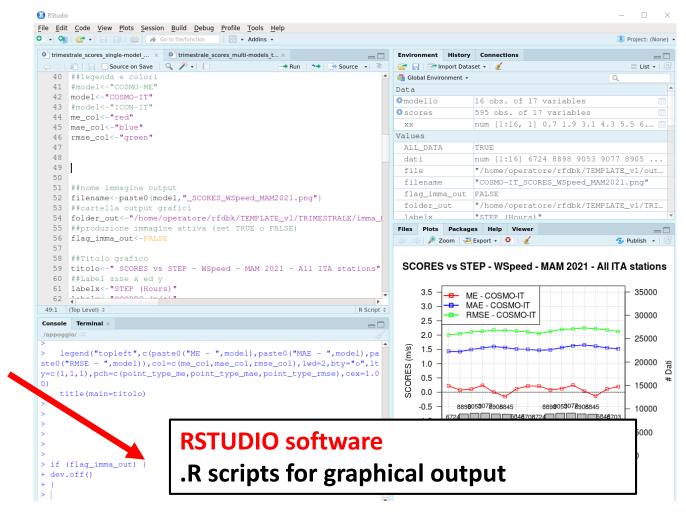
FF INPUT

3-hourly Feedback Files for each model and observation system



DWD Processing scripts

.Rdata statistical files for each model and observation system



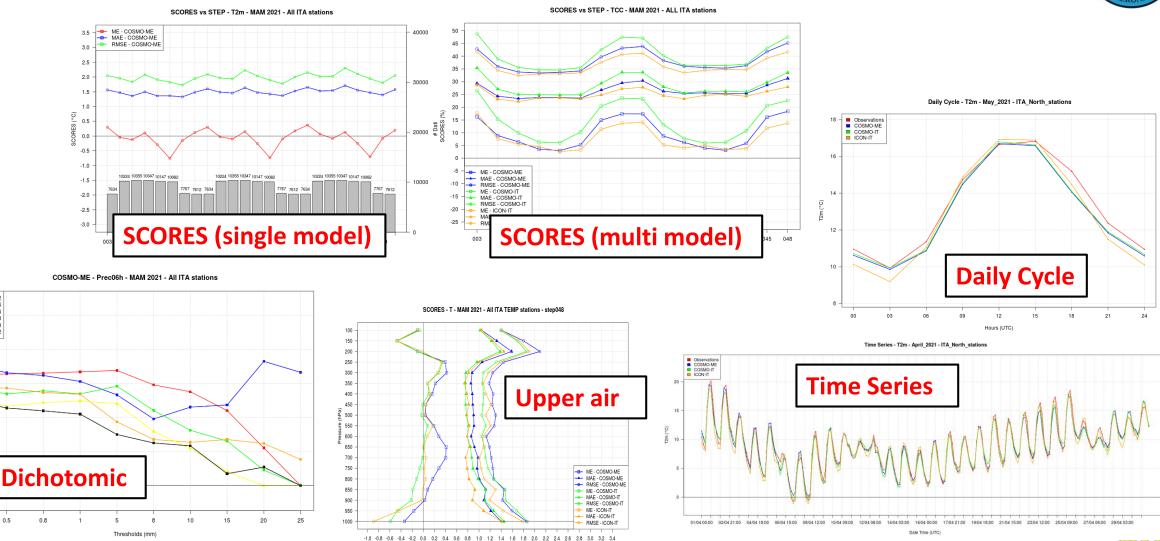






Graphical output (monthly/ quarterly reports)







- Step + 024

0.1

Step + 036
Step + 048



Scores (°C)



Open issues



- Accumulated precipitation values (currently only native integration times are processed, missing 24h and 6h windows twice a day for SYNOP data).
- 3D gribs on full model levels (high memory demanding).
- Missing data in OBS time series (only for stations without WMO identifier).
- Mean Sea Level Pressure?







Future plans



- ECMWF HRES operational verification.
- Wave model (national + ECMWF-WAM) operational verification.
- Precipitation: Spatial verification (e.g. FSS with radar data and high density Civil Protection raingauges network). Synergies within WG5?









THANKS FOR YOUR ATTENTION!



