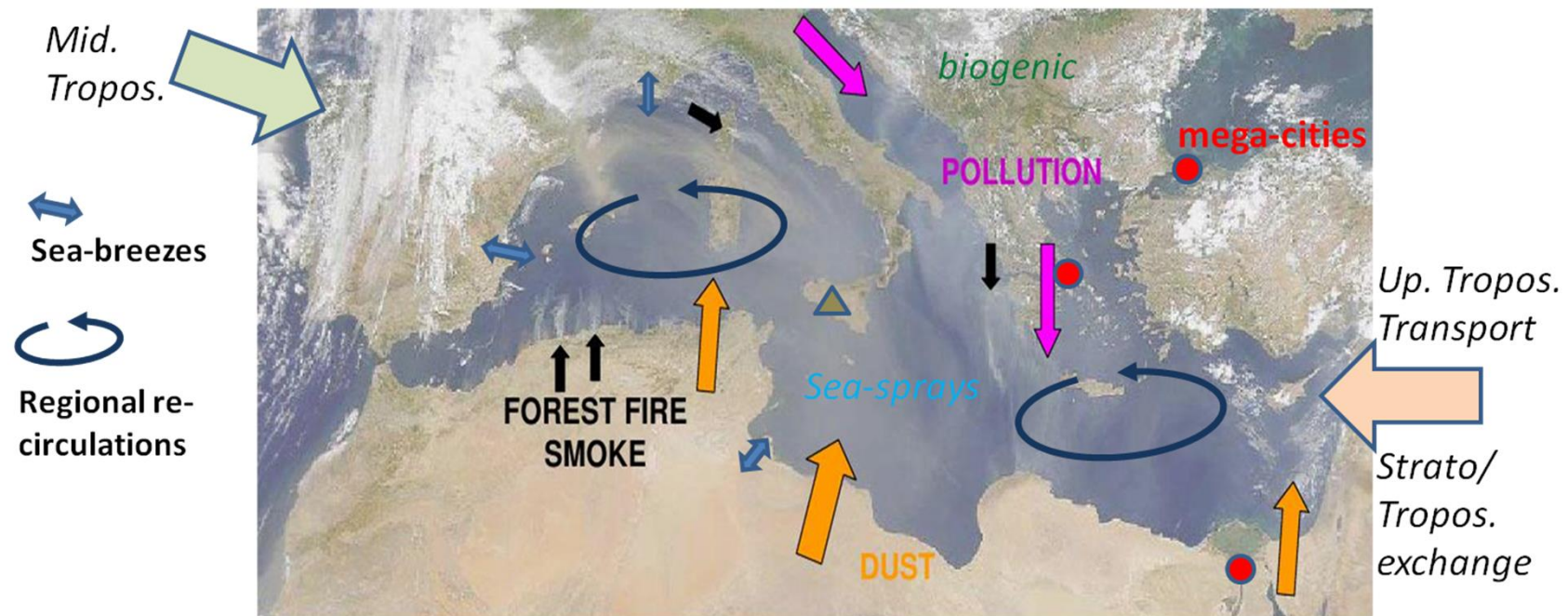


# Report on MedCORDEX FPS-Aerosol

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and the FPS-Aerosol team

*Special thanks to : Claudia Gutierrez (UCLM) and Julien Boé (CERFACS)*



# Med-CORDEX FPS-Aerosol

17 participating modelling groups

## Protocol 1: External Aerosol Forcing (Prescribed Aerosol Climatologies)

**1.A** : Hindcast runs

**1.B** : Historical + Scenarios  
including or not aerosol trends

### Status 1.A :

CNRM-RCSM4 (done)

RegCM4 (in prep)

...

**Status 1.B** : most advanced, analysis going on

CNRM-ALADIN63 (done)

WRF-AUTH (done)

REMO2015 (done)

COSMO-CLM (done)

RegCM4 (finishing)

RACMO22E (running)

For more info :

<https://www.hymex.org/cordexfps-aerosol/wiki/>

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## Protocol 2 : Fully Interactive Aerosol (On line approach)

**2.A**: Case studies (3 month test cases)

**2.B**: Hindcast runs

**2.C**: Historical + Scenarios  
including emission evolutions

**Status 2.A** : ADRIMED – Analysis going on

CNRM-RCSM (done)

MOCAGE (done)

CHIMERE (done)

WRF-Chem (done)

RegCM4 (done)

COSMO-GMXe (done)

MesoNH (done)

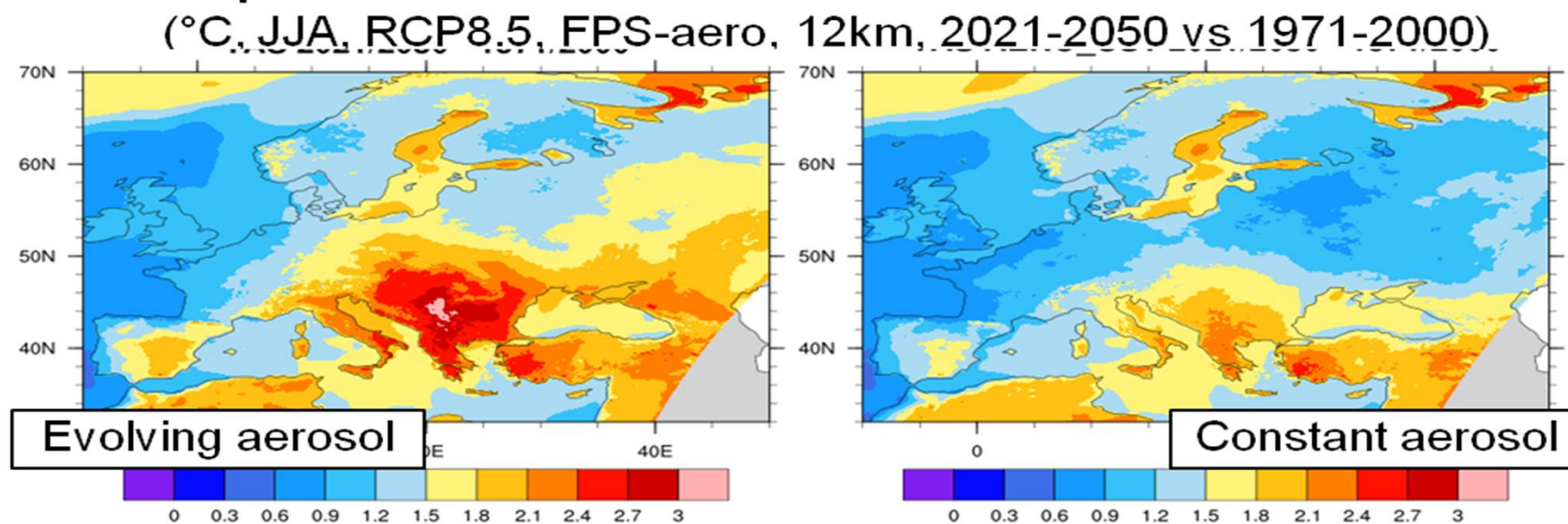
IFS (done)

**Status 2B-2C** :

CNRM-RCSM (done)

RegCM4 (new batch in prep)

## Impact on summer surface temperature anomalies ?



... Signal confirmed by preliminary analysis of other RCM running FPS –Aerosol protocol 1.B and 2.B...

- Missing evolving aerosol forcing in RCMs is (very) likely responsible for a (large) part of the inconsistency between GCM and RCM - at least on SSW and surface T - climate change signal.

These issues and others will be presented and discussed in detail during the :

**6th Med-CORDEX workshop, Météo France, Toulouse, November 25-29, 2019**

**<http://www.meteo.fr/cic/meetings/2019/medcordex2019/>**

**!! REGISTRATION STILL OPEN !!**