

Agenda of the Med-CORDEX sessions during the HyMeX meeting in Barcelona

Location: same as the HyMeX meeting

Faculty of Physics,

Martí Franquès Street, 1,

08028, Barcelona,

room #2

metro Green Line – Station “Palau Reial ”

https://www.hymex.org/public/documents/Practical_information_2017.pdf

Please, find more information on how to get there and Faculty’s spaces at the following link:

<http://www.ub.edu/fisica/queoferim/en/index/arribar.htm>

Monday, 3rd of July 2017

11am-11.30am [chair: S. Somot] Current status of Med-CORDEX phase 1

database, phase 1 data policy, list of runs, publication list, web, communication internal/external, feedbacks from the Med-CORDEX community

11.30am-12.30am [chair: S. Somot and G. Jordà] Baseline runs for phase 2:

motivation, participants, models, protocol, timing, list of scientific studies

12.30am-1.30pm [chair: B. Ahrens] Med-CORDEX scientific studies:

On-going and newly proposed multi-model studies using Med-CORDEX runs (short talks of 5min for each proposed study to create momentum around science). More talks welcome

- M. Gaertner (UCLM): Future evolution of the medicanes
- M.V. Struglia (ENEA): Eastern Mediterranean Sea and EMT
- S. Somot (CNRM): Dense Water Formation in the North-Western Mediterranean Sea
- G. Jordà (IMEDEA): Mediterranean Sea circulation
- S. Darmaraki (CNRM): Future evolution of Marine Heat Waves
- A. Harzallah (INSTM): Mediterranean Sea-level and budgets from the INSTMED06 model forced by multi-model Med-CORDEX simulations
- B. Ahrens (GUF): Centennial simulation with a coupled RCM in MPIOM nudged to the NOAA/NCEP twentieth century reanalysis 20CR

Lunch

3.00pm-3.30pm: Introduction to FPS

- F. Solmon (15min): General context of the FPS Aérosol
- G. Jordà (15min): Review of the Med-CORDEX FPS on air-sea interactions.

Coffee

4.00pm-7.00pm [chair: F. Solmon]: Flagship Pilot Study (FPS) – Aerosol

(parallel session)

- Case studies / ADRIMED (40 mn)
 - F. Solmon, N. Elguindi, M. Mallet : Objectives and first results
 - P. Nabat: [Evaluation of CNRM-RCSM simulations with interactive aerosols](#)
 - T. Giannaros et al.: Dust and Medcane interactions / intercomparison study
- Long term integrations and projections (1h and more)
 - F. Solmon: Objectives and Protocols. First results using ALADIN and RegCM
 - Emerging scientific questions
 - Specific discussion on prescribed aerosol climatology protocol
 - Specific discussion on the fully interactive aerosol exercise
 - Links and synergies with other programs
 - Data management, webpage, other issues (time allowing)

4.00pm-7.00pm [chair: G. Jordà] Flagship Pilot Study (FPS) Air-Sea including ORCM

(parallel session)

- R. Waldman (15min): How does mesoscale impact deep convection?
 - J. Beuvier (15min): New version of MEDRYM Mediterranean Sea reanalysis (1992-2013)
- Discussion
- Protocol for air-sea coupling (linked with baseline runs)
 - Review of on-going/planned tasks for the FPS. Are the scientific goals being covered?
 - Review of on-going/planned tasks on the improvement of ocean simulations (integration of ORCM community activities on the FPS)
 - Which issues need further attention? Is it worth/feasible to organize coordinated studies for the FPS ?

Tuesday 4th of July 2017

2.30pm-4pm [chair: E. Coppola] Flageship Pilot Study (FPS) - Convection

- E. Coppola (15min): FPS presentation and updates
- S. Chan/E. Kendon (10min): Extreme events and synoptic variability in free running convection permitting model hindcasts
- I. Güttler/ E. Coppola (10min): [RegCM4 nonhydrostatic simulation over the CORDEX FPS Convection domain](#)
- B. Ahrens (10min): CPS in the Med-CORDEX domain with COSMO-CLM: 1 year
- Q. Fumière (5min): Setting AROME-Climate at CNRM for the FPS convection
- Discussion (40min)
 - Optional domains (north-west/south-east)
 - Data sharing test cases and first years of simulation (esgf or what?)
 - Special issue end of September

Friday 7th of July 2017

2.00pm-3.30pm: final discussion and wrap-up meeting

- **Wrap-up for the baseline runs [chair: S. Somot]:** list of actions, timeline, associated projects or calls, events incl. Montpellier workshop on impacts, scientific studies (15min)
- **Wrap-up for the FPS convection [chair: E. Coppola]:** list of actions, timeline, associated projects or calls, events incl 2018 meeting, scientific studies (15min)
- **Wrap-up for the FPS air-sea [chair: G. Jordà]:** list of actions, timeline, associated projects or calls, events incl. workshop in 2018, scientific studies (15min)
- **Wrap-up for the FPS aerosol [chair: F. Solmon, S. Somot]:** list of actions, timeline, associated projects or calls, events, scientific studies (15min)
- **Mediterranean RCM evaluation wiki [chair: G. Jordà]** (15min)
- **Med-CORDEX contribution to IPCC and MedECC reports [chair: S. Somot]** (15min)