

Annual report 2020 for domain Europe

Scientific highlights

1. Finalization of the [Euro-CORDEX guidelines](#) on regional climate simulations
2. Publication of a joint Euro-CORDEX publication [Jacob et al, 2020](#)
3. Preparation of the Euro-CORDEX Ensemble Matrix Design white paper
4. FPS –Convective phenomena at high resolution over Europe and the Mediterranean:
 - Finalization of evaluation simulations (30 ensemble members) and publishing datasets in FZJ server
 - Ongoing historical/projection simulations
 - Publications in peer review journals ([Lavin Guillon et al., 2020](#); [Coppola et al., 2020](#))
 - Multiple manuscripts in-review or in-prep (Pitchelli et al. and Ban et al. nearing acceptance)
5. FPS- LUCAS ([Land Use and Climate Across Scales](#)):
 - Two publications in peer review journals ([Davin et al., 2020](#); [Breil et al 2020](#))
 - 10 RCMs have finalized the coordinated experiments on extreme land use change scenarios, and there are many ongoing multi-model studies based on those experiments, and publishing datasets on FZJ/JSC server
 - Preparation of datasets on LULC change
 - Preparation of high-resolution historical/projection simulations with land use changes

Summary of each workshop/activity held during the year

Title, date, short description, location, website, links	Responsible person/-s	Funder
FPS-Convection: Annual meeting, 1-2/12/2020, online	S. Sobolowski, Erika Coppola	-
FPS-LUCAS: PFT Workshop, 30/10/2020, online	P. Hoffman, V. Reinhart	-
FPS-LUCAS: Annual meeting, 17-18/9/2020	D. Rechid	-
FPS LUCAS Interim Meeting 2020, 18th June 2020	D. Rechid	-

Domain related publications during the year

Title, journal and link to publication	Author/-s	Date
EURO-CORDEX 2020 publication list	EURO-CORDEX modelers	

Planned activities for next year

- Publication of white paper on the GCM/RCM ensemble matrix design (draft to GA 01.2021; final by 05.2021)
- Finalization of the Euro-CORDEX simulation protocol
- Production of the Euro-CORDEX phase II simulations
- FPS-Convection: Finish projection simulations; continue work on community papers; establish a special issue (06.2021); begin publishing simulations on ESGF by end of 2021.
- FPS-LUCAS: GCM-driven simulations including land use changes; joint publications

Additional relevant information

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The report should be sent to ipoc@cordex.org before the 15th November each year.