

LIST OF THE CMIP5-DRIVEN HISTORICAL AND SCENARIO RUNS OF THE MED-CORDEX BASELINE RUNS

version 0: S. Somot, January 2020

version 1: S. Somot, March 2021

version 2: S. Somot, January 2022, merging Phase 1 and Phase 2 run lists

In Med-CORDEX, 19 scenario runs have been performed with 11 different RCSM configurations and by 8 different institutes. 6 different CMIP5 GCMs and 3 different RCP scenarios are covered. This includes phase 1 and phase 2 runs.

Simulations done, Simulations in preparation

Model	Driving GCM	Scenario Period	Status	Last update
CNRM-RCSM4	CNRM-CM5, r1i1p1	HIST/RCP26, 1951-2100 <i>Ref: Darmaraki et al. 2019a</i>	done	2022-01-20
CNRM-RCSM4	CNRM-CM5, r1i1p1	HIST/RCP45, 1951-2100 <i>Ref: Darmaraki et al. 2019a</i>	done	2022-01-20
CNRM-RCSM4	CNRM-CM5, r1i1p1	HIST/RCP85, 1951-2100 <i>Ref: Darmaraki et al. 2019a</i>	done	2022-01-20
ENEA-PROTHEUS v2	CNRM-CM5, r1i1p1	HIST/RCP45, 1979-2100	done	
ENEA-RegCM-ES	GFDL-	HIST/RCP85, 1950-2100	planned	
CLMcom-GUF-CCLM-NEMO			no	
CLMcom-GUF-CCLM5-0-9-NEMO MED12-3-6	EC-Earth r12i1p1	HIST/RCP85, 1950-2099	done	2019-11-24
LMD-LMDZMED_v1	IPSL-CM5A-MR, r1i1p1	HIST/RCP85, 1950-2100	done	
LMD-LMDZMED_v1	IPSL-CM5A-MR, r1i1p1	HIST/RCP45, 1950-2100	done	

LMD-LMDZMED_v2	IPSL-CM5-MR, r1i1p1	HIST/RCP85, 1950-2100	done	
LMD-LMDZMED_v2	CNRM-CM5, r1i1p1	HIST/RCP85, 1950-2100	done	
LMD-LMDZMED_v2	MPI-ESM-MR, r1i1p1	HIST/RCP85, 1950-2100	done	
IPSL-MORCEMED	IPSL-CM5A-MR, r1i1p1	HIST/RCP85, 1989-2035	done	
CMCC-CCLM4-21-NEMOMFS (50km)	CMCC-CM, r1i1p1	HIST/RCP85, 1950-2099	done	
CMCC-CCLM4-21-NEMOMFS (50km)	CMCC-CM, r1i1p1	HIST/RCP45, 1950-2099	done	
CMCC-CCLM4-21-NEMOMFS (12km)	CMCC-CM, r1i1p1	HIST/RCP85, 1960-2100	done	2019-11-15
CMCC-CCLM4-21-NEMOMFS (12km)	CMCC-CM, r1i1p1	HIST/RCP45, 1960-2100	done	2019-11-15
UBEL-EBUPOM2c	MPI-ESM-LR, r1i1p1	HIST/RCP85, 1950-2100	done	2020-11
ITU-RegESM1			no	
ITU-RegESM1.2			planned	2021-03-29
AWI-GERICS-ROM44	MPI-ESM-LR, r1i1p1	HIST/RCP85, 1950-2099	done	
AWI-GERICS-ROM22	MPI-ESM-LR, r1i1p1	HIST/RCP85, 1950-2099	done	2020-11
AWI-GERICS-ROM22	MPI-ESM-LR, r1i1p1	HIST/RCP45, 1950-2099	done	2020-11
AWI-GERICS-ROM11			no	
ICTP-RegCM-ES			no	2022-02
INSTM-LMDZ/ROMS-MED			no	

REFERENCES:

- Darmaraki, S., Somot, S., Sevault, F., Nabat, P., Narvaez, W. D. C., Cavicchia, L., ... & Sein, D. V. (2019). Future evolution of marine heatwaves in the Mediterranean Sea. *Climate Dynamics*, 53(3), 1371-1392.