

## Existing CMIP5 simulations; papers, domain, RCMs, forcing etc.

### CORDEX domains

- Region 1: South America
- Region 2: Central America
- Region 3: North America
- Region 4: Europe (EURO)
- Region 5: Africa
- Region 6: South Asia** e.g. →
- Region 7: East Asia
- Region 8: Central Asia
- Region 9: Australasia
- Region 10: Antarctica
- Region 11: Arctic
- Region 12: Mediterranean (MED)
- Region 13: Middle East North Africa (MENA)
- Region 14: South-East Asia (SEA)

14: South-East Asia (SEA): <https://cordex.org/domains/region-14-south-east-asia-sea/>

Information for ESGF simulations obtained from DKRZ node as by 11/6/2020.


Further details on registered RCMs at [http://is-enes-data.github.io/CORDEX\\_RCMs\\_info.html](http://is-enes-data.github.io/CORDEX_RCMs_info.html)

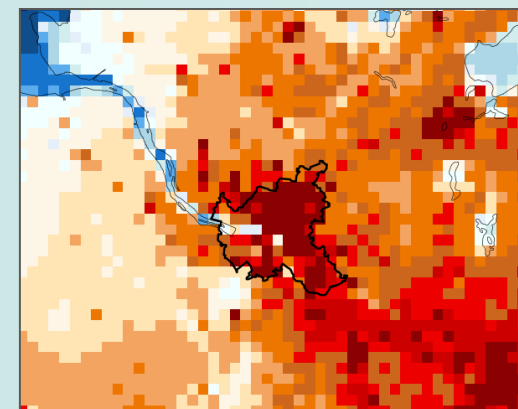
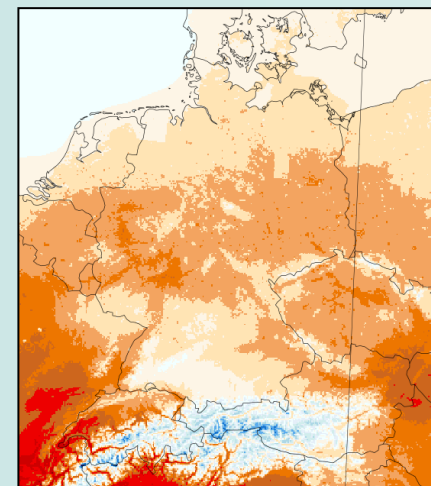
(\*) Contact details for registered RCMs at [https://github.com/IS-ENES-Data/cordex/blob/master/CORDEX\\_register.xlsx](https://github.com/IS-ENES-Data/cordex/blob/master/CORDEX_register.xlsx)

	Domain	GCM_run	RCM	Evaluation	Historical Period	RCP2.6	RCP4.5	RCP6.0	RCP8.5	Reference (DOI)	Institution	Contact Info. (*)	Access	License
1	SEA-22	ECMWF-ERAINT	REMO2015_v1	1979-2017	N/A	N/A	N/A	N/A	N/A	10.3390/atmos10110726	GERICS	TBC	ESGF	unrestricted
2	SEA-22	MOHC-HadGEM2-ES_r11p1	REMO2015_v1	N/A	1970-2005	2006-2099	N/A	N/A	2006-2099	TBC	GERICS	TBC	ESGF	unrestricted
3	SEA-22	MPI-M-MPI-ESM-LR_r11p1	REMO2015_v1	N/A	1970-2005	2006-2100	N/A	N/A	2006-2100	TBC	GERICS	TBC	ESGF	unrestricted
4	SEA-22	NCC-NorESM1-M_r11p1	REMO2015_v1	N/A	1970-2005	2006-2100	N/A	N/A	2006-2100	TBC	GERICS	TBC	ESGF	unrestricted
5	SEA-22	ICHEC-EC-EART-H_r11p1	ICTP-RegCM4-3_v4	N/A	1970-2005	N/A	2006-2100	N/A	2006-2100	Tangang et al. 2020	RU-CORE	Dr Jerasorn Santisiriso mboon; jerasorn@gmail.com	ESGF	unrestricted (APN ARCP2015-04CMY-Tangang)
6	SEA-22	IPSL-IPSL-CM5A-LR_r11p1	ICTP-RegCM4-3_v4	N/A	1950-2005	N/A	2006-2100	N/A	2006-2100	Not included in Tangang et al. 2020	UKM (Universiti Kebangsaan Malaysia)	Dr Liew Juneng; juneng@ukm.edu.my	ESGF	unrestricted (APN ARCP2015-04CMY-Tangang)
7	SEA-22	MPI-M-MPI-ESM-MR_r11p1	ICTP-RegCM4-3_v4	N/A	1970-2005	N/A	2006-2100	N/A	2006-2100	Tangang et al. 2020	RU-CORE	Dr Jerasorn Santisiriso mboon; jerasorn@gmail.com	ESGF	unrestricted (APN ARCP2015-04CMY-Tangang)
8	SEA-22	NOAA-GFDL-GFDL-ESM2M_r11p1	-RegCM4-3_v4	N/A	1951-2005	N/A	2006-2099	N/A	2006-2099	Not included in Tangang et al. 2020	RU-CORE	Dr Liew Juneng@ukm.edu.my TBC	ESGF	unrestricted (APN ARCP2015-04CMY-Tangang)
9	SEA-22	ECMWF-ERAINT	RCA4_v1	1980-2010	N/A	N/A	N/A	N/A	N/A	TBC	SMHI	Dr Grigory Nikulin; grigory.nikulin@smhi.se	ESGF	unrestricted

# CORDEX update

## CORDEX White Paper: Future challenges for CORDEX

- ❑ Smaller domains + finer resolution > risks/VIACS challenges locally and regionally
- ❑ Regional ESMs > increasing complexity
- ❑ Data and infrastructure
  - ❖ Data on **ESGF** 
  - ❖ New focus on sub-daily data



~3 km

# CORDEX update

## **CORDEX experiment design for dynamical downscaling of CMIP6**

- Experiment design (aerosols, SSPs, land cover change, etc.)
- Ensemble GCM/RCM matrix design in development
- Discussion on indices and outputs with VIACS communities
- Assessment of CMIP6 experiments

**Connections to WGCM (HighResMIP etc.) will be further developed in 2021**