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Climate change effects on the epidemiology of infectious diseases and the impacts on Northern societies

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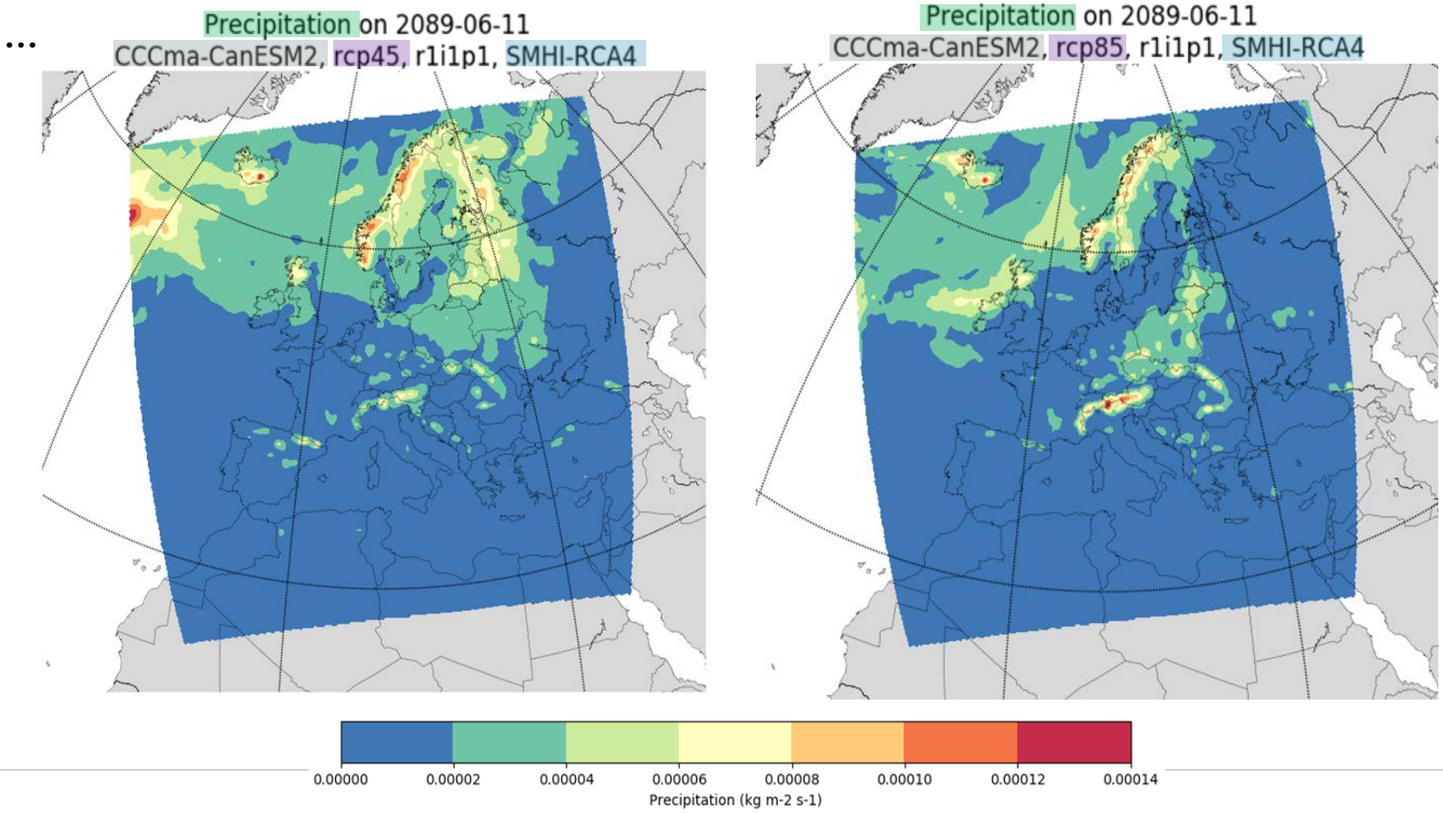
Regional hydro-climatic data for current & projected future conditions

Photos: Carl-Johan Utsi

PROJECT	DOMAIN	GENERAL CIRCULATION MODEL (GCM)	REGIONAL CLIMATE MODEL (RCM)	REPRESENTATIVE REACTION PATHWAY (RCP)	VARIABLE
CORDEX	EUR-44	CNRM-CERFACS-CNRM-CM5	KNMI-RACMO22E	historical	Precipitation
		CCCma-CANESM2	SMHI-RCA4	RCP-2.6	Evapotranspiration
		MPI-M-MPI-ESM-LR	CNRM-ALADIN53	RCP-4.5	Temperature
	ARC-44	...	...	RCP-8.5	...

For one particular (future projected) monthly time slice (here RCP4.5 and RCP 8.5):



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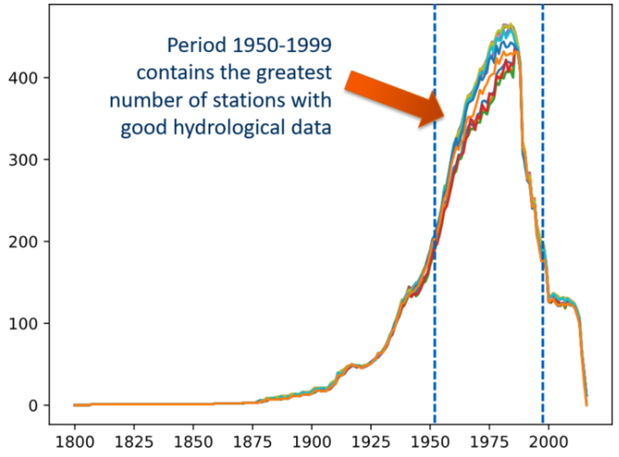
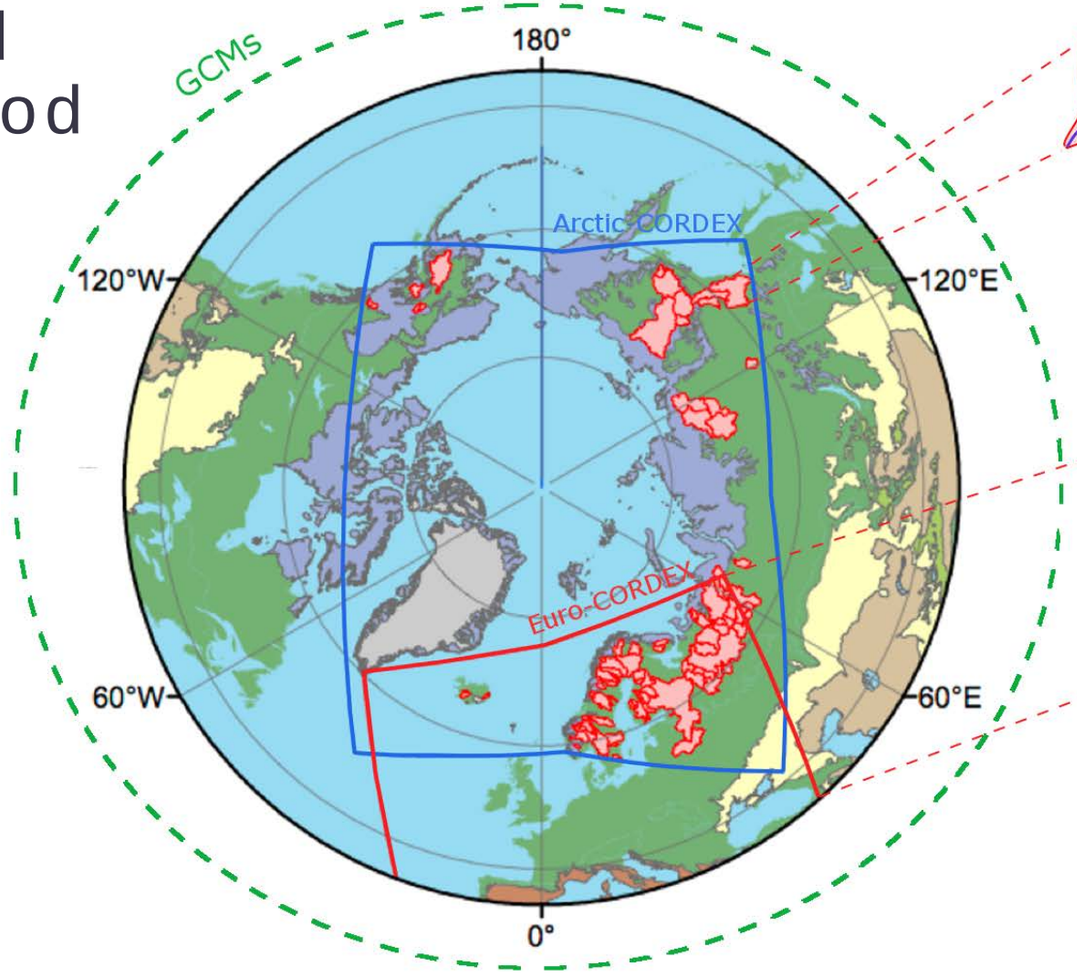
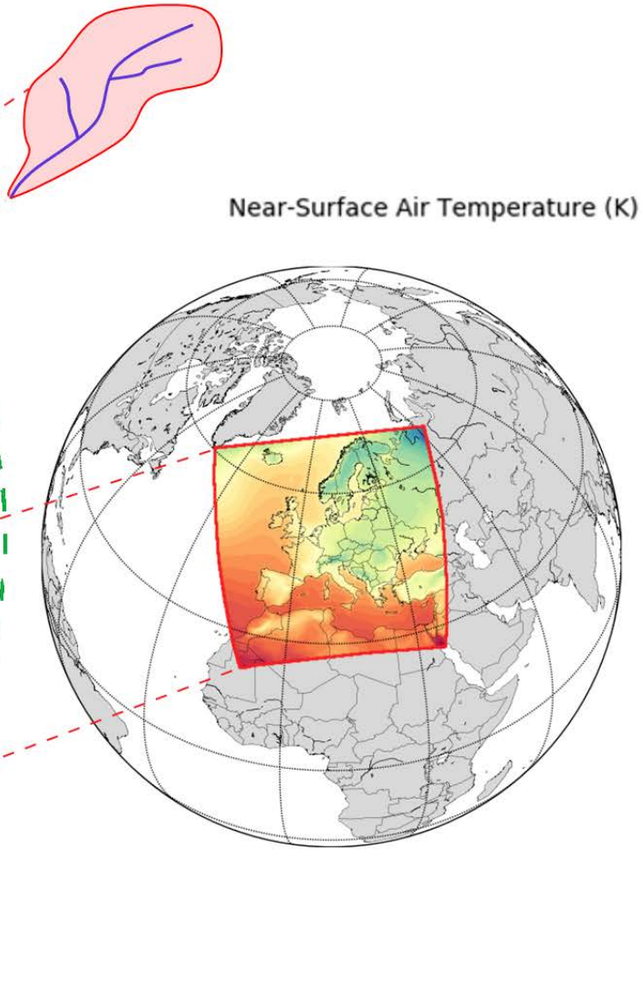
Around 70 Nordic and Arctic basins have good hydrological records







These basins can therefore be suitable units for detailed investigation of water and climate controls on climate sensitive infections

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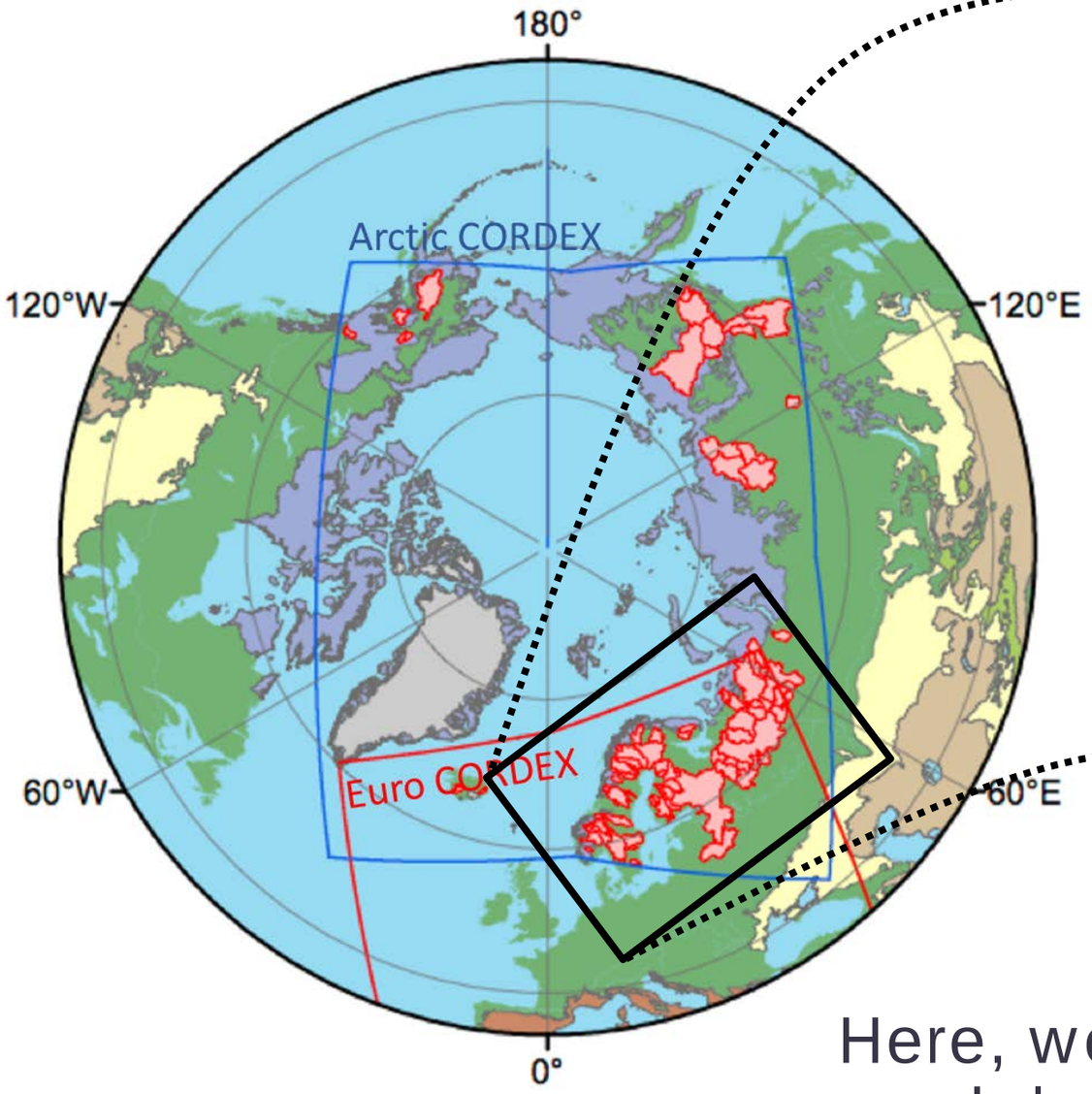

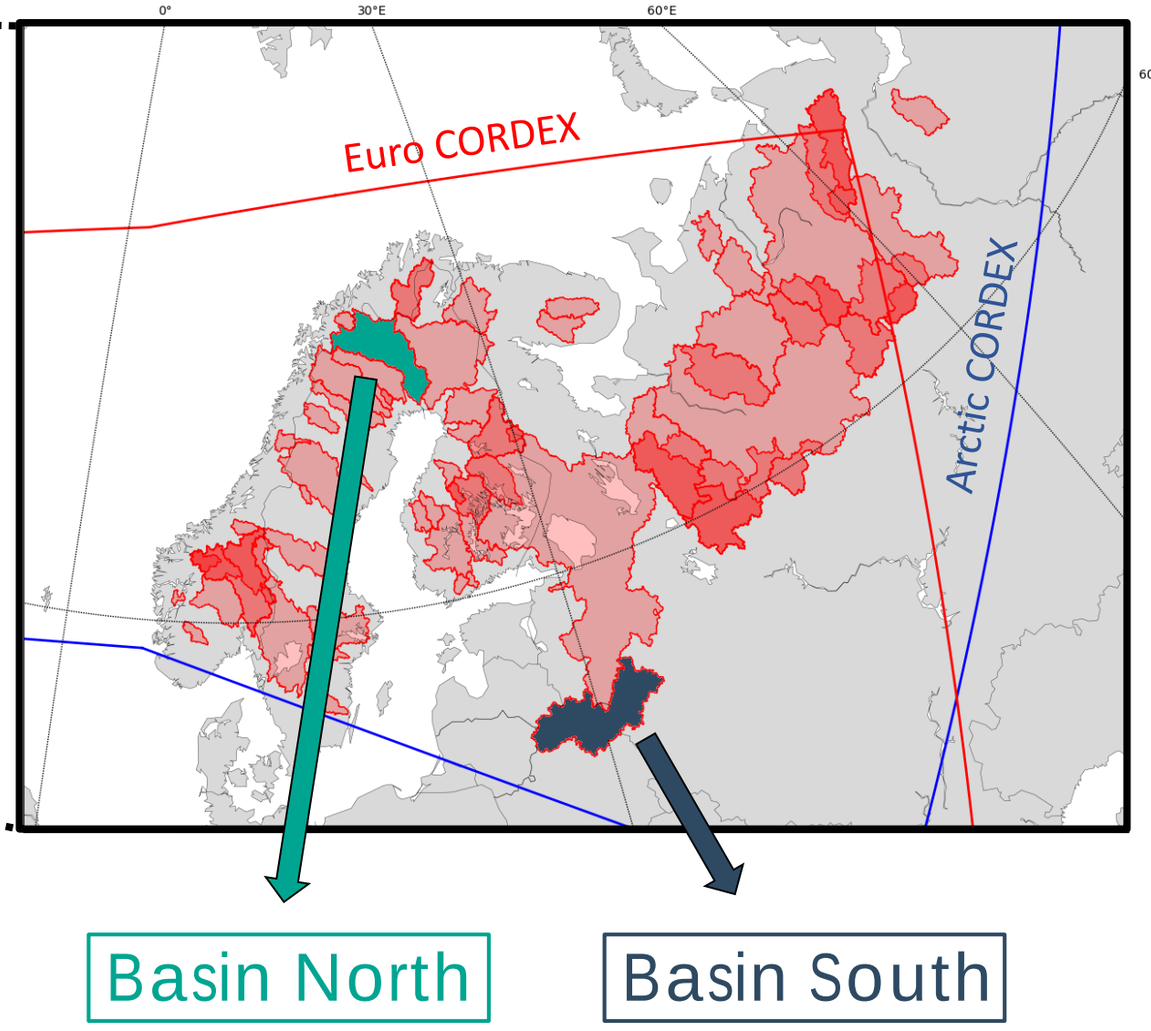

Here, we will calculate some statistics based on models monthly historical and future projections

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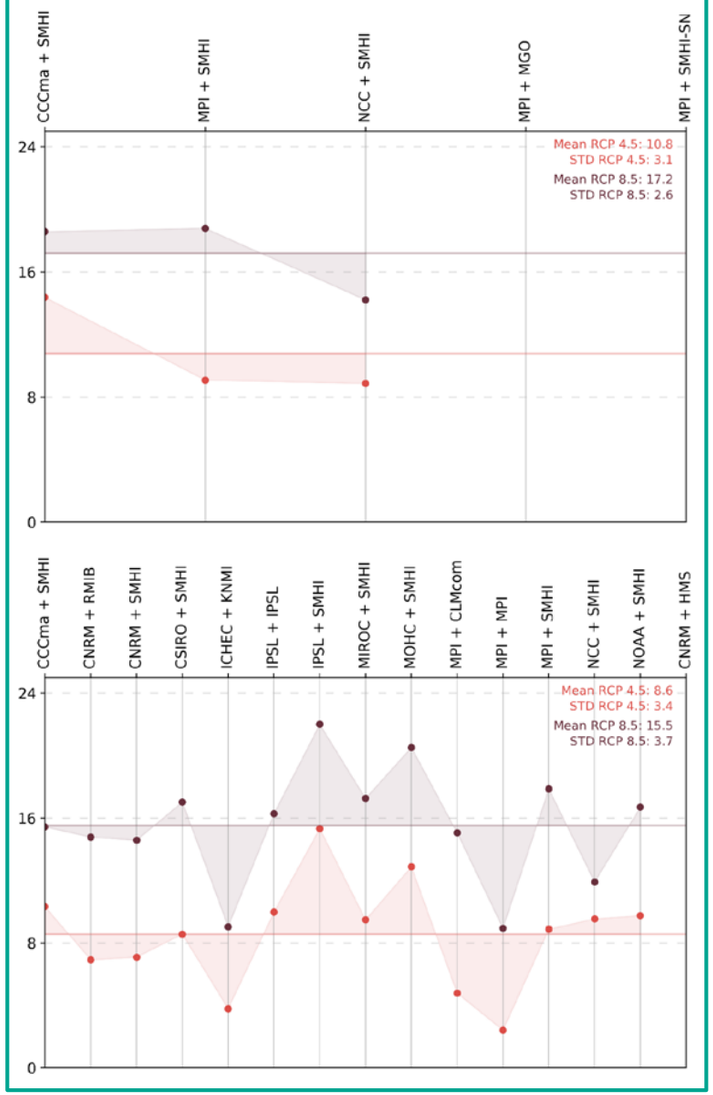
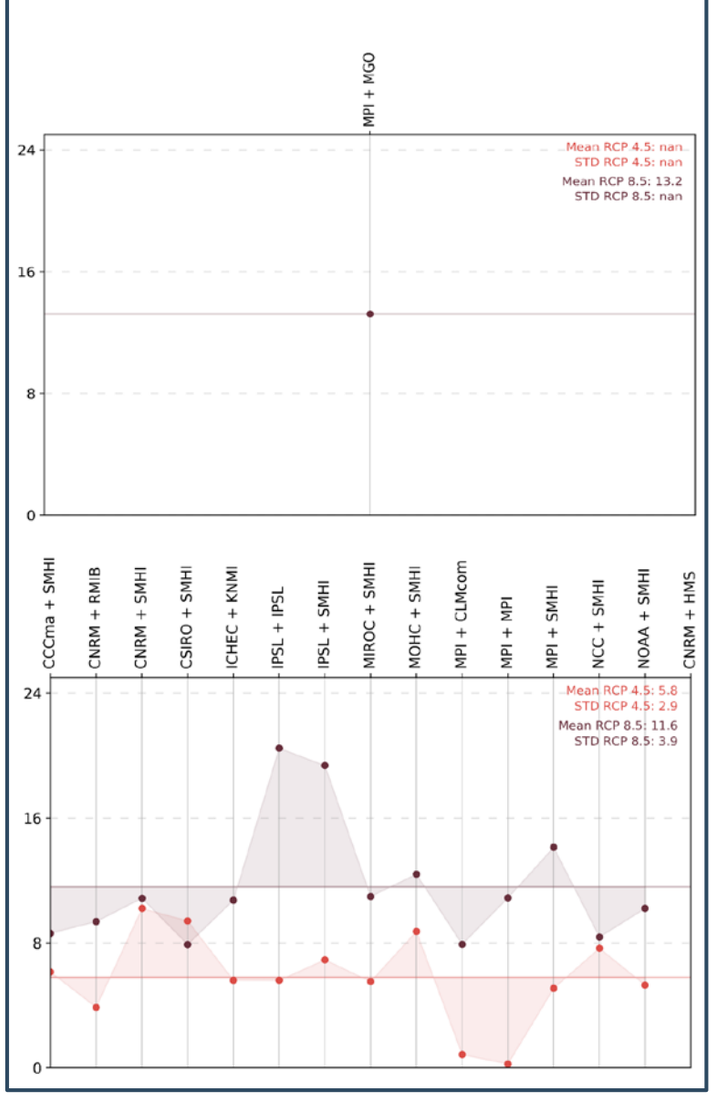
Basin North



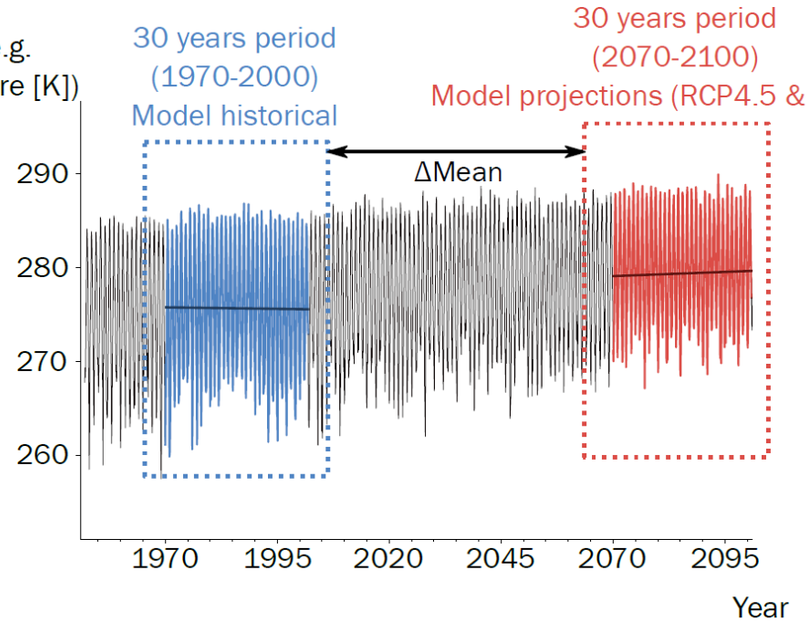
Basin South



Arctic CORDEX

Euro CORDEX

Variable (e.g. temperature [K])



RCP 4.5

RCP 8.5

Precipitation [mm]

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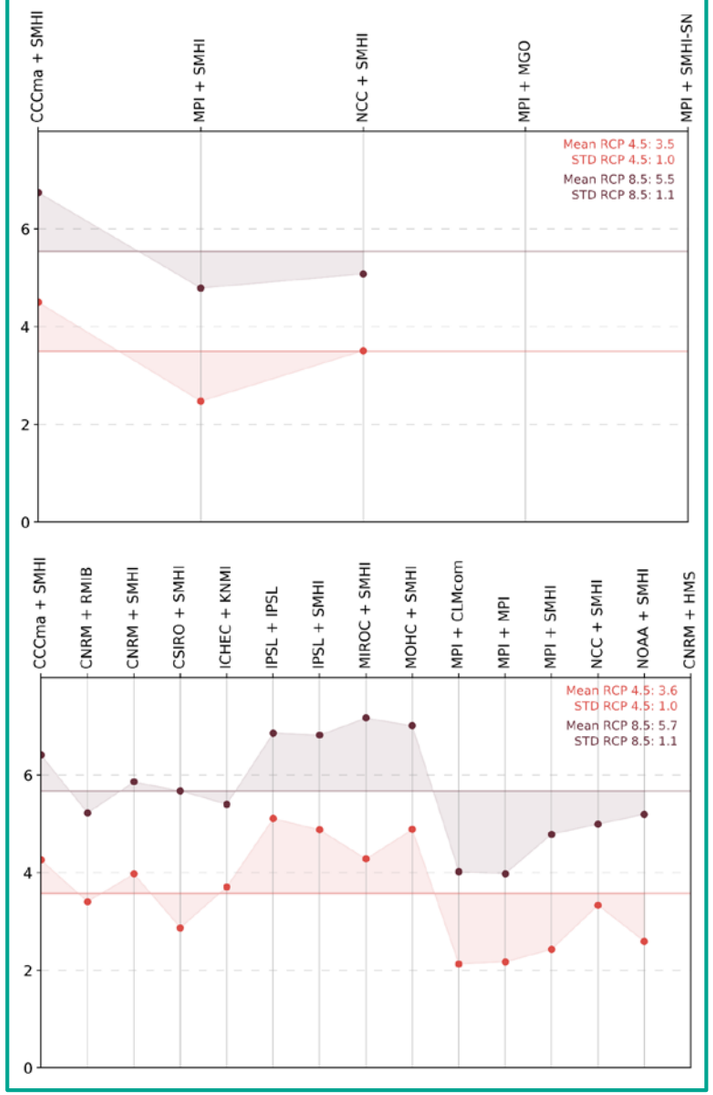
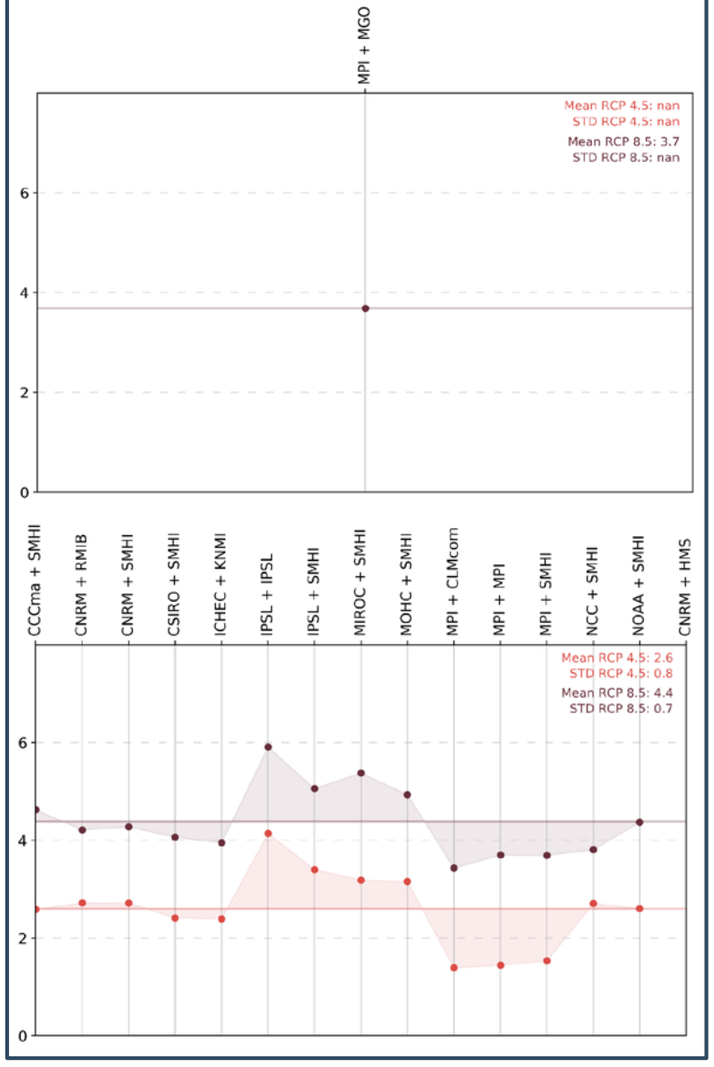
Basin North

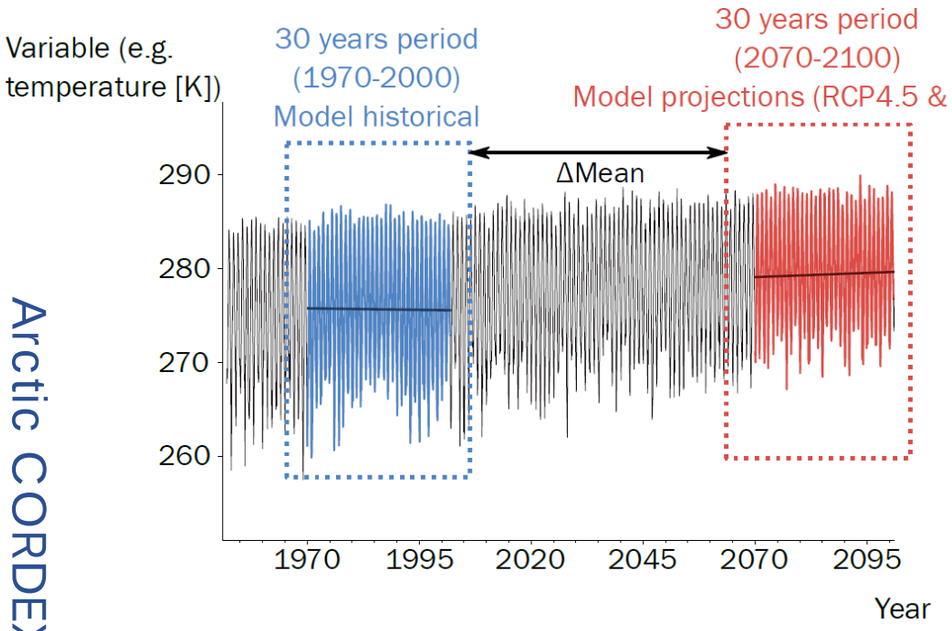


Basin South



Arctic CORDEX

Euro CORDEX



RCP 4.5

RCP 8.5

Temperature [K]

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Thank you for your attention !