ReKliEs-De

Regionale Klimaprojektionen Ensemble für Deutschland

HLNUG
Für eine lebenswerte Zukunft

UNIVERSITÄT HOHENHEIM 1818

b·tu Brandenburgische Technische Universität Cottbus - Senftenberg

DWD
Deutscher Wetterdienst
Wetter und Klima aus einer Hand

PIK
POTSDAM-INSTITUT FÜR KLIMAFOLGENFORSCHUNG

DKRZ
DEUTSCHES KLIMARECHENZENTRUM

Helmholtz-Zentrum Geesthacht
Zentrum für Material- und Küstenforschung

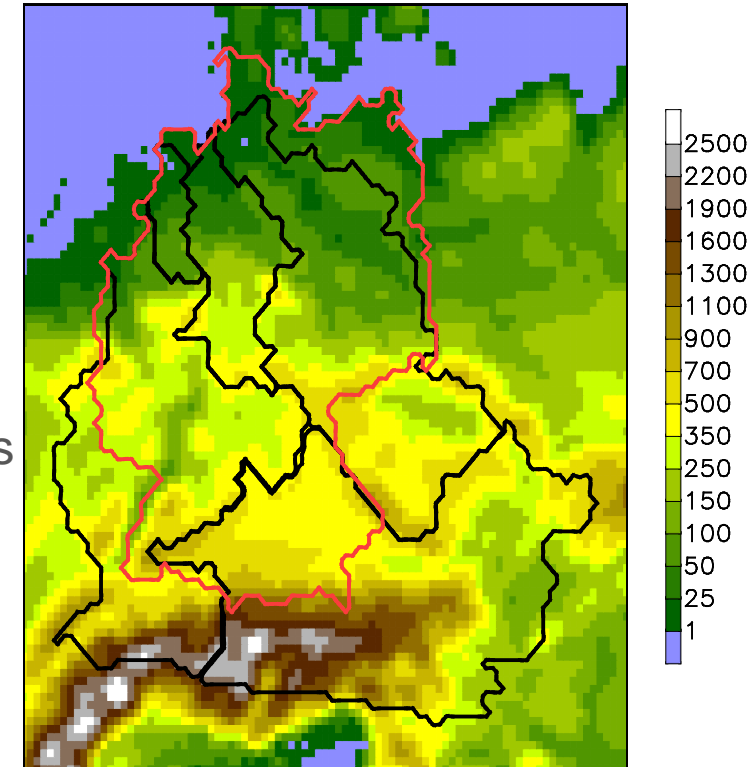GERICS
Climate Service Center Germany

ReKliEs-De

Regionale Klimaprojektionen Ensemble für Deutschland

- Within a cooperation between federal administrations of Germany, different modeling centers, weather and climate services, ReKliEs-De will provide consistent and user-tailored information for the federal agencies and climate impact and adaption research.

- The assessment of the data and information needs of users forms the basis of the user tailoring of the project results.

- The overall goal of ReKliEs-De is to derive robust climate change information on high spatial resolution (0.11°) for Germany and the large river catchments draining into Germany.

EURO CORDEX 0.11° Simulations:

Legend:
- ⬜ (gray) Klimafolgen-Online
- 🟩 (green) ReKliEs-De
- 🟦 (blue) EURO CORDEX
- 🟧 (orange) EURO CORDEX 0.11°

RCM + RCP	CCLM	REMO	WRF	WR'10	STARS	RCA4	RACMO	HIRHAM5	Aladin
EC-EARTH RCP2.6						EURO CORDEX			
MPI-ESM-LR RCP2.6	(green)	EURO CORDEX	(green)	(green)	(gray)				
MPI-ESM-LR RCP8.5	EURO CORDEX	EURO CORDEX	EURO CORDEX	(green)	(gray)	EURO CORDEX			
CNRM-CM5 RCP8.5	EURO CORDEX	(green)		(green)	(gray)	EURO CORDEX			EURO CORDEX
HADGEM2-ES RCP8.5	EURO CORDEX	(green)	(green)	(green)	(gray)	EURO CORDEX	EURO CORDEX		
EC-EARTH RCP8.5	EURO CORDEX	(green)	(green)	(green)	(gray)	EURO CORDEX	EURO CORDEX	EURO CORDEX	
Can-ESM RCP8.5	(green)	(green)		(green)	(gray)				
MIROC5 RCP8.5	(green)	(green)	(green)	(green)	(gray)				
IPSL-INERIS RCP8.5			EURO CORDEX			EURO CORDEX			

Overview of ReKliEs-De

- The EURO-CORDEX simulations are evaluated for Germany and will be systematically complemented by further simulations with both dynamical and statistical downscaling methods.

  - Optimized number of ensemble members to derive robust climate change information.

  - Analyse systematic differences between the dynamical and the statistical downscaling results.

  - Evaluate the need to reassess associated risks and impacts based on the previous climate change scenarios (SRES).

  - Climate indices will be calculated. The climate indices ETCCDI will be complemented by climate indices, which are important for Germany.
    - We are in contact with similar projects ClipC and IS-ENES2.

- All ReKliEs-De simulations and indices will be made available through ESGF.

- Model simulations on high spatial resolution, simulation of intensive precipitation periods (1 km)

Helmholtz-Zentrum Geesthacht
Zentrum für Material- und Küstenforschung

http://reklies.hlnug.de

GERICS
Climate Service Center
Germany