

THE CHARACTERIZATION OF THE CLIMATE SYSTEM FROM PAST TO THE FUTURE FOR RISK ASSESSMENT AND CLIMATE ACTION

2

FUTUR

ت

R 0 J

Authors: Maxx Dilley, Amir Delju, Ilaria Gallo

Climpact •

Climpact helps policymakers to generate sector-specific climate information relevant for climate-sensitive sectors from daily observed historical temperature and precipitation data

Climpact indices identify also highimpact events, or climate extremes, including heatwaves, cold spells, meteorological droughts, and precipitation extremes.

These indices describe the local frequency, duration, and intensity of various climate extremes at monthly and annual resolution

Coupled Model Intercomparison Project - CMIP

CMIP projects future **trends**, **variability**, and change of climate indicators. CMIP deploys both Regional and Global Climate Models of atmosphere-ocean general circulation processes.

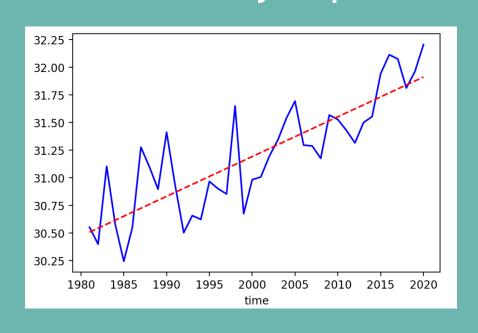
Coordinated Regional Downscaling **Experiment - CORDEX**

CORDEX produces regional climate **projections** down-scaling global climate models on much smaller scales (200-50 KM).

NATIONAL/LOCAL USE

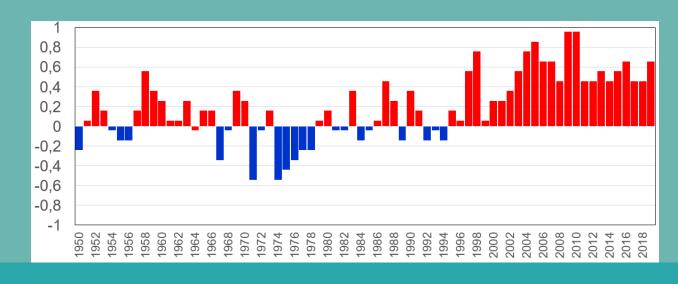
CONTEXT-SPECIFIC INDICATORS

Annual mean daily temperature



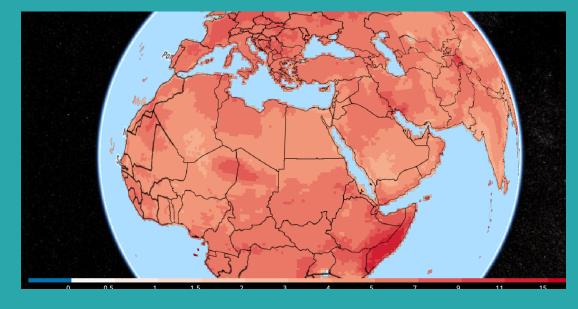
HIGH-IMPACT EVENT INDICATORS

Temperature anomalies

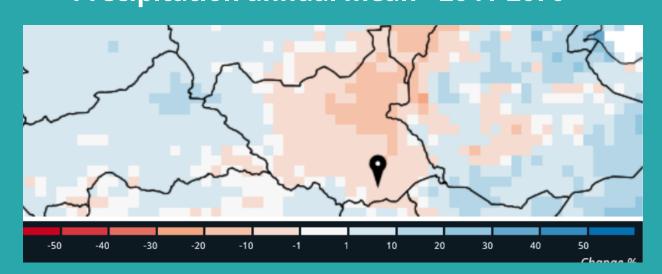


STATE OF THE CLIMATE **INDICATORS**

Maximum temperature - 2071-2100



Precipitation annual mean - 2041-2070



- wcrp-climate.org/wgcm-cmip
- cordex.org

climateinformation.org

Relevant links

climpact-sci.org