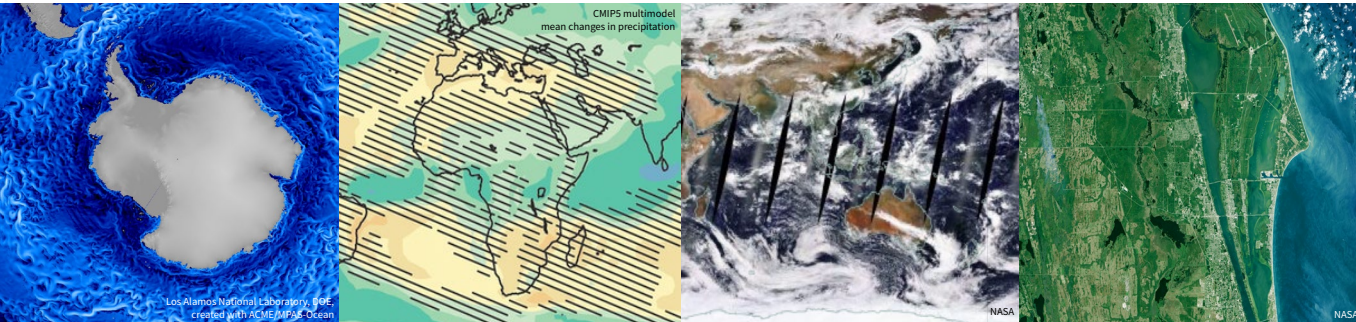


The Building Blocks of Research

Observations, data and numerical models are the fundamental building blocks of World Climate Research Programme (WCRP) research. Our understanding of the Earth System and how our climate will change in the future is built on extensive climate data records from observations and reanalyses, and fundamental Earth System Model development to capture climate variability and change.



understanding global and regional scales
seamless predictions and projections
open access

data

subseasonal to century time scales

modelling

Earth System Models
climate data records

observations

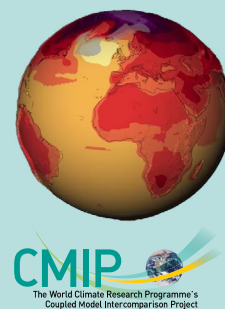
To plan for the future society needs to know how our climate will change on a range of timescales. We are working to provide seamless predictions and projections from subseasonal to century time scales, both globally and regionally. We promote open access to all of the data and information produced by our research community, as we recognize that open collaboration benefits us all. More information can be found on the WCRP website:

www.wcrp-climate.org/unifying-themes

Highlights

The Coupled Model Intercomparison Project (CMIP)

CMIP involves many hundreds of climate researchers, working with modeling centres around the world, who share, compare and analyze the latest outcomes of global climate models. These model products will fuel climate research for the next 5 to 10 years and will form the basis for future climate assessments and negotiations, including those of the Intergovernmental Panel on Climate Change (IPCC) Assessment Reports. www.wcrp-climate.org/wgcm-cmip



Coordinated Regional Climate Downscaling Experiment (CORDEX)

Global Climate Models provide us with projections of how Earth's climate may change in the future on a global scale. However, the impacts of a changing climate, and the adaptation strategies required to deal with them, are important on regional and national scales. CORDEX advances and coordinates regional climate downscaling research, which has an important role to play by providing projections with much greater detail and more accurate representation of localized extreme events. www.cordex.org

WCRP MODELLING & OBSERVATIONS