

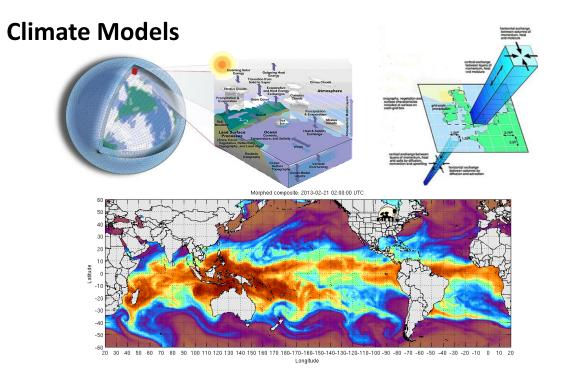


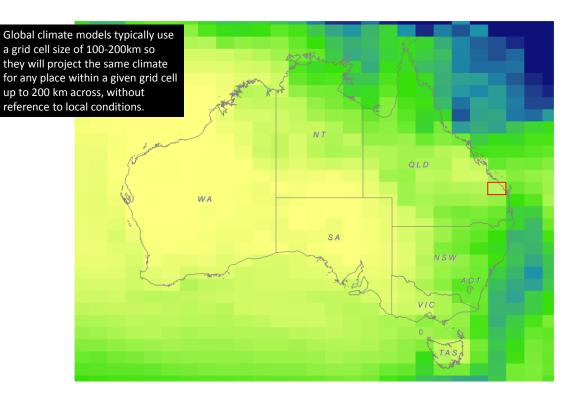


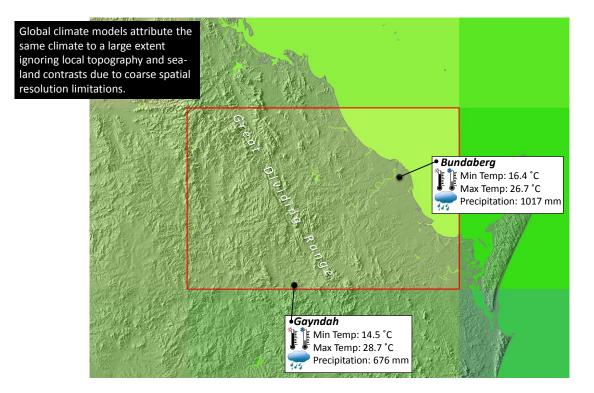
## **Queensland Future Climate Dashboard**

a new web-platform to support regional climate adaptation with cutting-edge modelling across Queensland

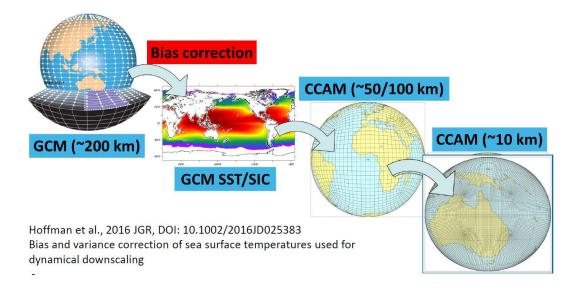


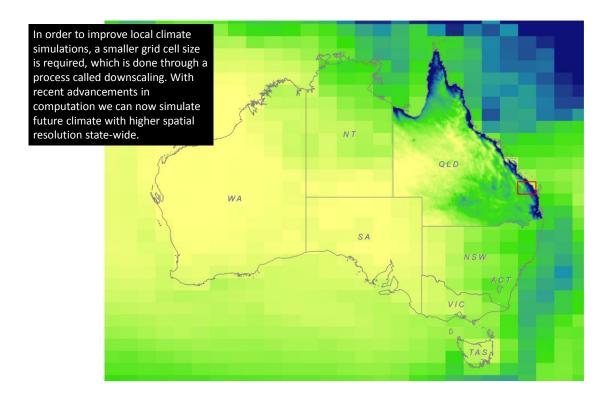


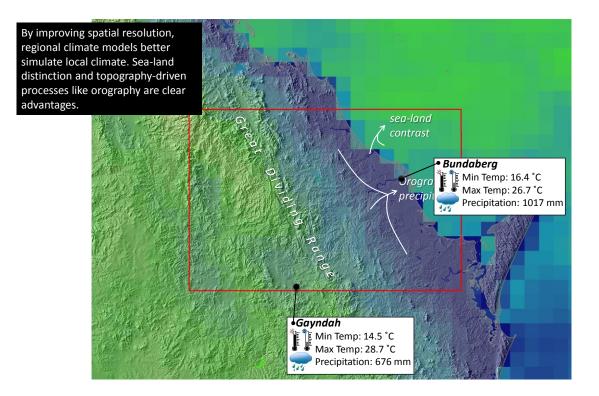


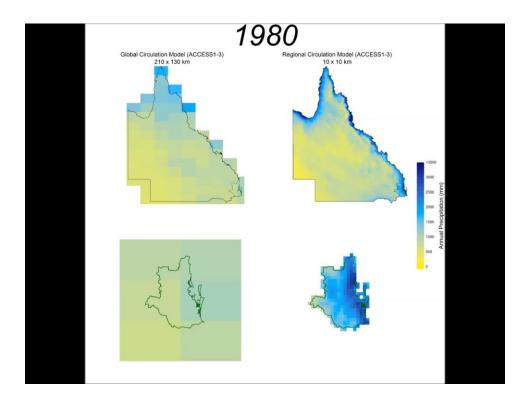


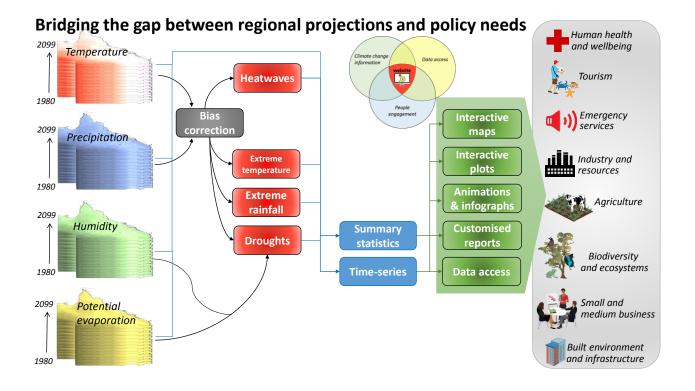
### Downscaling GCMs to provide climate change projections at regional scale



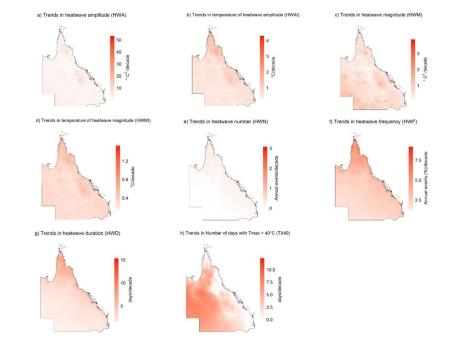


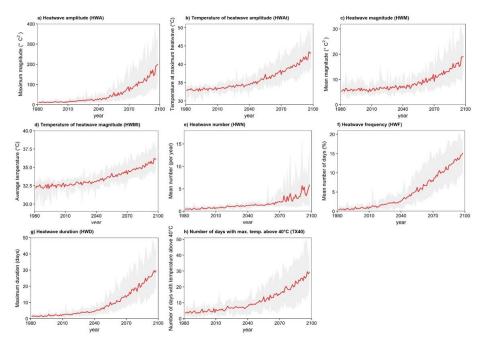






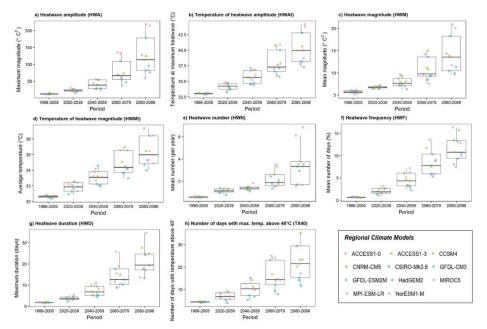
Trends in heatwave characteristics within Queensland from climate simulations (1981-2098)

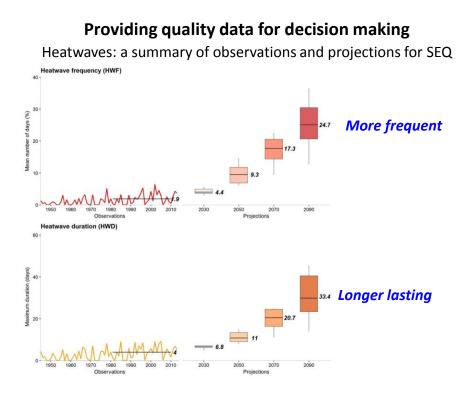




### Continuous projections for heatwaves within Queensland State (1981-2098)

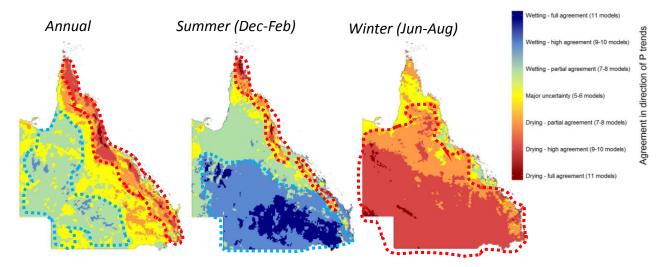
Long-term steady state shifts in heatwave characteristics within Queensland (1986-2098)

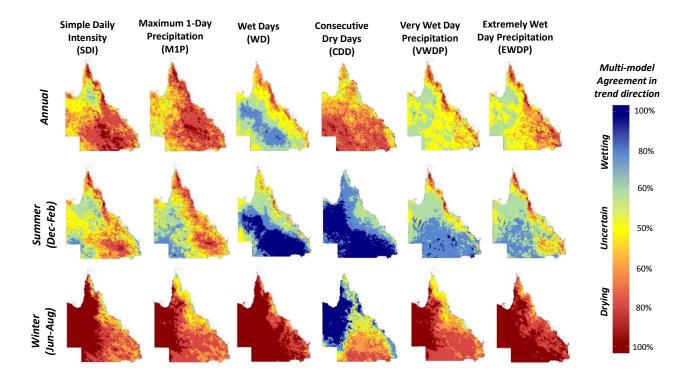




### Uncertainty in projected precipitation trends (1980-2099): integrating 11 downscaled climate models

Major uncertainties at annual time-step, but higher agreement of wetter summer and drier winter over most of Queensland





## Queensland Future Climate Dashboard

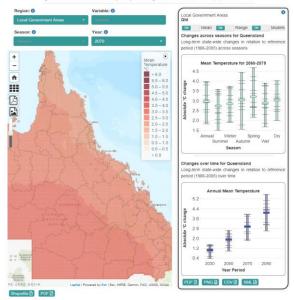
- Fully interactive online platform to provide climate change simulations at regional scale
- 6 climate themes
- 30 variables
- Calendar seasons, wet and dry periods and
- 5 regional divisions with spatially aggregated data
- Support to local and regional planning, biodiversity and water management and emergency services

#### High Resolution Climate Change Projections

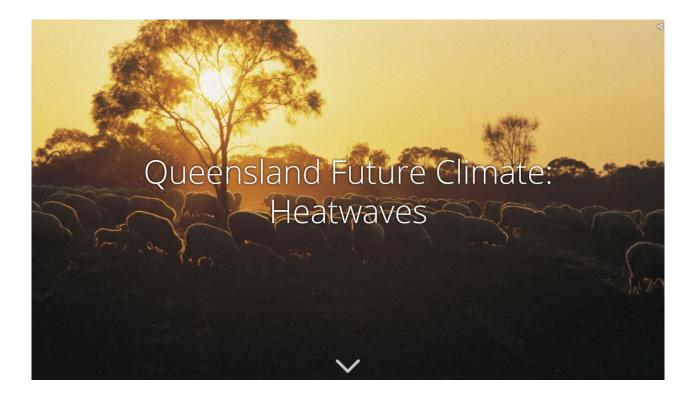
#### Queensland Future Climate Dashboard

Mean Climate Heatwaves Extreme temperature indices Extreme precipitation indices Droughts Floods

Queensland's climate is highly variable in space and time, ranging from tropical wet to and in space and from extremely wet to extremely dry over ime. Understanding how our future climate and variability is subject to chances is crucial for adaptation and preparedness.



# Queensland Future Climate: Understanding the data



# PROJECTED CHANGES ON AVERAGE TEMPERATURE ANOMALIES FOR THE STATE OF QUEENSLAND

