



# Climate Change

## Science and Knowledge Plan for South Australia

## Nationally recognised climate change projections for SA coming soon

The Department for Environment and Water (DEW) is working to ensure that nationally-recognised climate projections produced by established climate research organisations are available to you as part of the state government's open data principles.

### **Access to nationally recognised climate projections**

South Australia's ability to assess risks and plan our adaptation strategies to respond to climate change is dependent on the most reliable information on the likely future changes in climate at a regional and local scale.

We are working in partnership with New South Wales and the Australian Capital Territory governments, and the Climate Change Research Centre at the University of New South Wales, to improve our climate change projections and hazard data using the latest generation climate models and emissions scenarios through the NARCLiM (NSW and ACT Regional Climate Modelling) project.

NARCLiM uses state-of-the-art climate modelling processes to downscale and translate global-scale projected climate change data into local-scale information for decision-makers. Through the NARCLiM partnership, DEW is making this available to all organisations to enable a consistent standard of climate data for the assessment of climate risks and planning of responses.

### **What new climate projection information will be available?**

In 2022 DEW will release:

- an updated Guide to climate projections for risk assessment and planning in South Australia (NARCLiM 1.5), including tables of projected changes for individual SA landscape regions
- interactive maps of projected changes in primary climate variables (temperature, rainfall, humidity, wind speed, solar radiation) in an online mapping tool
- new static maps of projected changes in average and extreme rainfall and temperatures will be available through the department's online services.

## **Next generation of climate projections and national alignment**

The NARClIM partnership is currently developing the next generation of NARClIM 2.0 climate projections using the latest (CMIP6) global climate models, providing even finer resolution projections with updated carbon emissions scenarios. This will be available in 2023.

A National Partnership for Climate Projections has recently been established to guide the delivery of a nationally aligned, sustainable, and integrated approach to Australian projection science and projections information. SA Government, through DEW, is a member of this partnership.

## **Your future climate science needs**

A roadmap of climate change projection products to be released in 2022 is available to view on the [Climate Smart South Australia website](#).

We will be in touch soon to seek a better understanding of your climate science needs to inform future products including those can be drawn from the NARClIM climate projections.

More climate change science information is available in the current [Guide to Climate Projections for Risk Assessment and Planning in South Australia](#).

Should you require any further information or assistance with using climate science, please contact Principal Adviser, Climate Change Science, Dr Graham Green at [Graham.Green@sa.gov.au](mailto:Graham.Green@sa.gov.au)