Climate Systems

National Environmental Science Program

About us

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Climate science for adaption solutions

The Climate Systems Hub is an applied science partnership of Australia's leading climate and adaptation experts and climate change research and decision-making agencies. We are advancing knowledge of our future climate and extremes, research that directly informs Australian decisions, policies and climate adaptation responses. Together, we are helping to create a climate resilient Australia.

The hub was established in 2020-21 under phase two of the Australian Government's National Environmental Science Program (NESP) and will run until 2026-27. The hub's five research themes are: Accessible and Usable, People and Country, Land and Terrestrial Ecosystems, Oceans and Coast, and Monitoring and Modelling.

The hub is tasked with undertaking research and activities to:

- progress the development of national climate services capabilities and systems
- contribute to the development of the next generation of climate projections
- lead the further development of Australia's global climate model, ACCESS
- advance understanding of Australia's climate systems and processes.

The hub is delivering our research priorities by striving to:

Enhance national climate resilience through collaborative research and support for practical on-ground climate change responses.

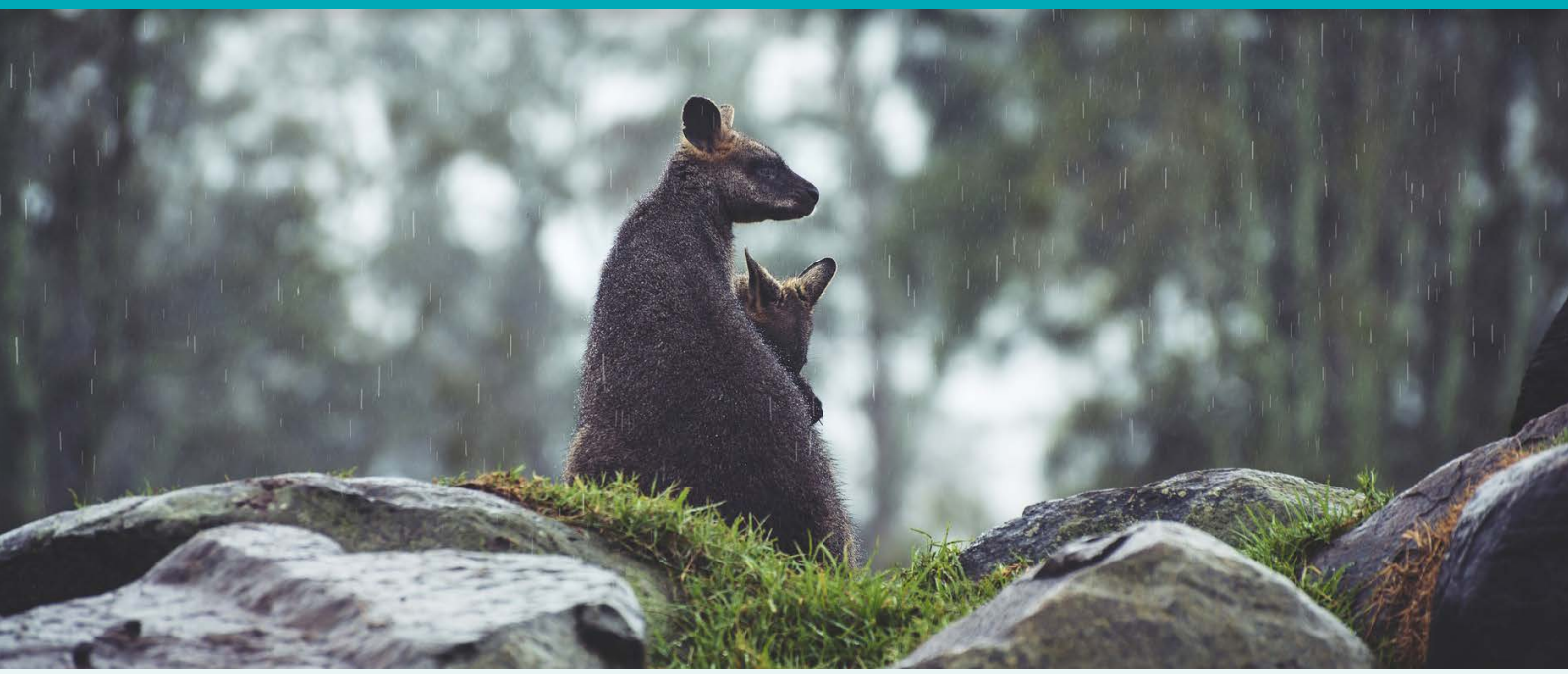
Co-design research in partnership with researchers, practitioners, Indigenous Australians and decision-makers.

Facilitate strong and respectful partnerships with Indigenous Australians.

Drive integrated climate adaptation research and activities across NESP.

The Climate Systems Hub is funded by the Australian Government under the National Environmental Science Program, with co-investment from the following partners:

Australian Government Bureau of Meteorology · CSIRO · Australian National University · Monash University · The University of Melbourne · UNSW Sydney · University of Tasmania



Science for decision-making

The Climate Systems Hub makes a significant investment in applied climate science and adaptation research. Our research themes deliver fundamental climate modelling capability, new understanding of climate processes and projections, and useable and accessible climate information for people and places.

Our team of state and territory hosted knowledge brokers work to ensure the hub's research and activities have real-world impact and application, including through tailored training in climate science for stakeholders.

Science partnerships

The Climate Systems Hub fosters partnerships to develop collaborative science relationships in the wider national climate science and adaptation research ecosystem. We are working closely with the Australian Climate Service (ACS) to deliver fit-for-purpose climate services, the National Collaborative Research Infrastructure Scheme ACCESS-National Research Infrastructure (ACCESS-NRI) to further develop Australia's national weather and climate model and participate in the National Partnership for Climate Projections (NPCP) alongside our state and territory partners to plan for nationally comparable and complementary approaches to climate projections.

Get in touch

Visit www.nesp2climate.com.au

Contact info@nesp2climate.com.au

Indigenous partnerships

The Climate Systems Hub values and commits to strong and respectful partnerships with Australia's First Nations People. We are working with communities to bring traditional knowledge and western climate science to protect Country in the face of climate change. At the heart of this work are the principles of free, prior and informed consent, and Indigenous-led and co-designed protocols. The hub has facilitated the development of the National First Peoples Platform on Climate Change (NFPPCC).

Climate Adaption Initiative

The Climate Systems Hub coordinates the cross-cutting Climate Adaptation Initiative. The initiative drives integrated research and activities to improve Australia's adaptive capacity and resilience in response to climate change. We're doing a stock take of climate adaptation initiatives across Australia. Current projects are looking at adaptation in World Heritage properties, regional case studies and understanding the enablers of successful adaptation.