



Southwest Climate Adaptation Science Center

In partnership with researchers, state agencies, Native Nations and other natural and cultural resource managers, we develop **actionable science** and **implementable climate adaptation solutions** for the Southwest.

About the SW CASC

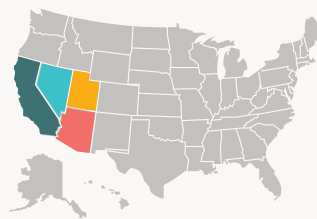
The **Southwest Climate Adaptation Science Center (SW CASC)** was established in 2011 to provide objective scientific information, tools and techniques that land, water and wildlife resource managers and other interested parties can apply to anticipate, monitor and prepare for weather and climate challenges in the southwestern United States.

The SW CASC is one of nine regional Climate Adaptation Science Centers managed by the U.S. Geological Survey's (USGS) National Climate Adaptation Science Center. The Southwest region comprises the states of **Arizona**, **California**, **Nevada** and **Utah**.

Consortium Partners

- 1 University of Arizona (Host)**
- 2 Northern Arizona University**
- 3 Utah State University**
- 4 University of Nevada, Las Vegas**
- 5 University of California, Davis**
- 6 University of California, Los Angeles**
- 7 Scripps Institution of Oceanography at UC San Diego**

The SW CASC is a collaborative partnership between the USGS, the American Indian Higher Education Consortium and a consortium of seven academic institutions from across the region. It is hosted at the Arizona Institute for Resilience at the University of Arizona.



Tribal Engagement

The SW CASC acknowledges that Tribes in the Southwest and across the United States have been adapting to changing climate conditions for millennia, and have unique knowledge and insights for building community resilience through climate adaptation planning. We continuously work to collaborate, partner and support Tribes in their efforts. We describe our approach for collaborating with our Tribal partners at swcasc.arizona.edu.

Our Approach

Actionable Information

We prioritize actionable science by engaging directly with users to understand their challenges, convey their priorities and information needs into research questions and produce objective climate adaptation science for problem solving.

Collaborative Engagement

We foster communities of scientists, managers and citizens by promoting cross-disciplinary collaboration and developing professional networks, communities of practice and forums.

Partnership Building

We build federal-consortium partnerships to expand our capacity and access the best climate adaptation expertise for the benefit of resource managers and the public.

Science Communication

We translate scientific information and research into relevant products and tools that are accessible and useful to partners and the general public.

Workforce Development

We prepare the next generation of scientists to address future resource management challenges through fellowships, career opportunities and workforce development.



Our Science Focus

The Southwest is home to diverse ecosystems—including deserts, mountains, forests and coasts—that support some of the most iconic wildlife and vegetation in the U.S. This region faces a number of challenges associated with **rising temperatures**, such as **record low snowpack**, increased **flooding** and **extreme wildfires**. Resource managers need up-to-date research on these topics to anticipate future challenges. The SW CASC delivers scientific information and tools that help managers develop strategies and programs to respond to climate variability. The following management challenges guide our work:



Water Availability and Long-Term Drought



Altered Fire Regimes



High-Impact Events



Changing Ecosystems



Changing Coastal Environments



Adaptation Obstacles and Opportunities

Who We Are



Connect With Us

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