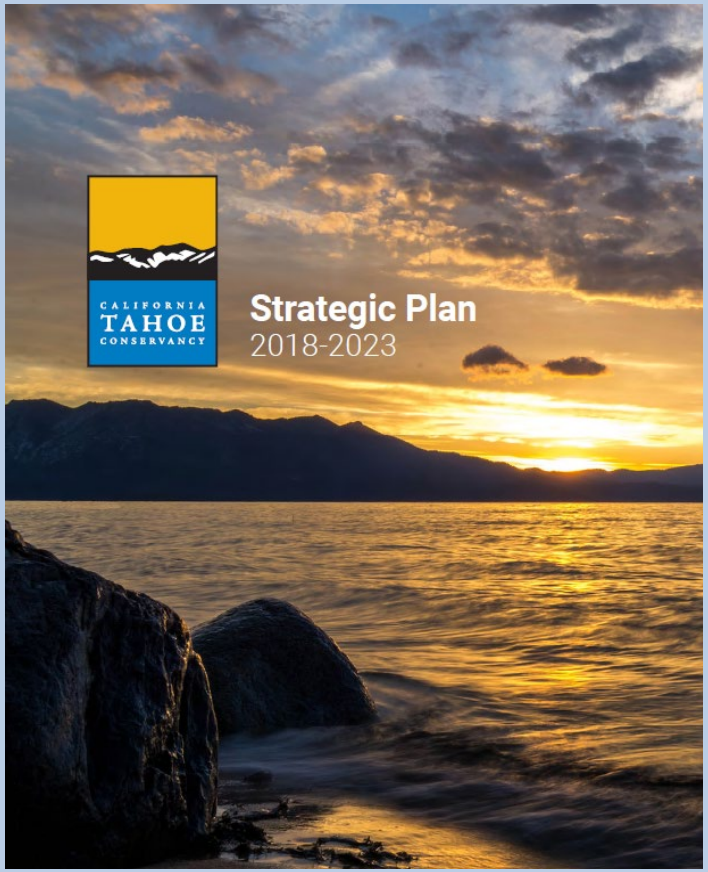
Watershed Hydrosimulations Grant

September 17, 2020

Background

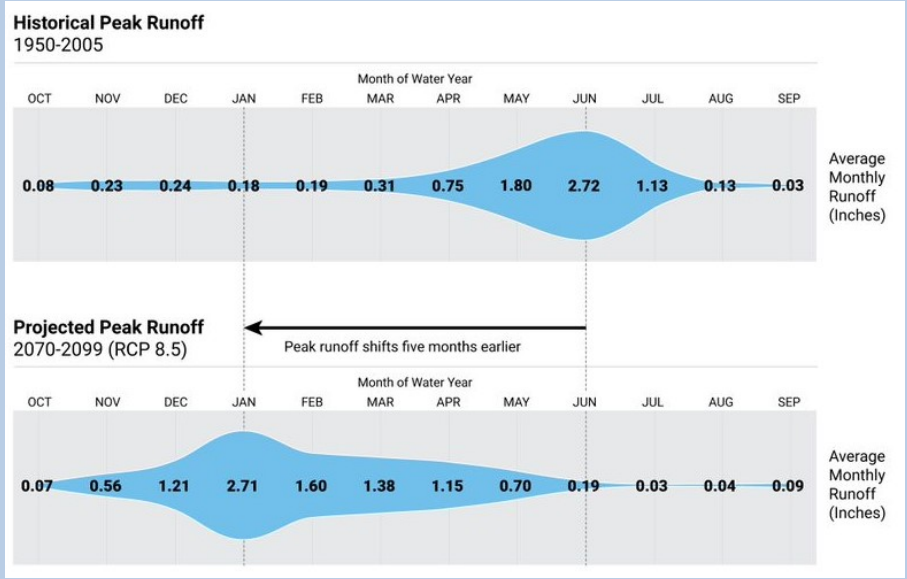


- Climate change central to Conservancy's work
- Strategic Plan highlights climate change
- Integrated Vulnerability Assessment and Climate Adaptation Action Portfolio

Background

Integrated Vulnerability Assessment of Climate Change in the Lake Tahoe Basin

- More frequent droughts and storms
- More rain on snow events
- Shift in timing of peak runoff



Background

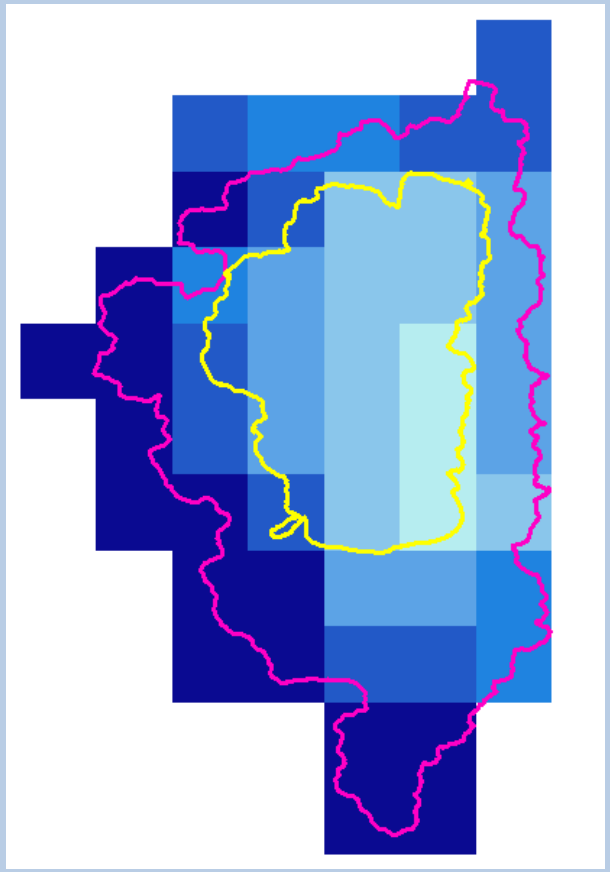
- Finer resolution models needed for managers to plan and design projects

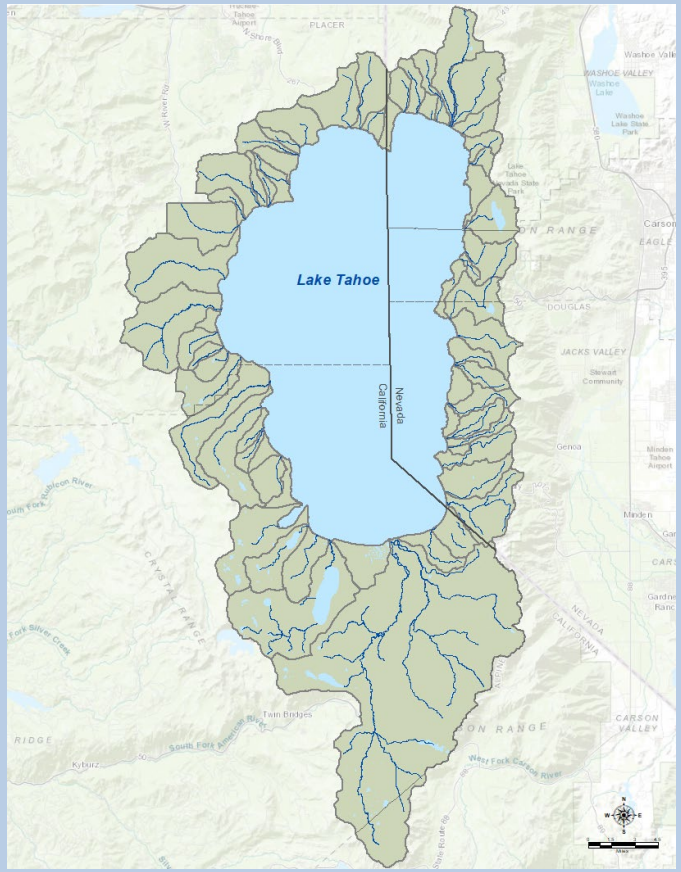
Implications

- Flooding
- Bank Erosion

Project Description

Desert Research Institute will model the hydrology and assess the climate vulnerability for roughly 60 watersheds around the Basin





Project Description

- Initial Stakeholder Engagement
- TSAC Review
- Model Simulations
- Online Data Archive

End Users: public utility districts, public works departments, and land managers

Project Schedule

Task	Timeline
Initial Stakeholder Engagement & TSAC Review	Fall 2020
Model Simulations	Winter 2021
Analysis & Documentation	Spring 2021
Online Archiving	Spring 2021
Final Stakeholder Engagement	Spring 2021

Project Budget

Task	Budget
Personnel	$72,000
Misc. Expenses	$3,000
Peer Review	$5,000
Total	**$80,000**

Recommendation

Staff recommends adoption of Resolution 20-09-07 authorizing a grant to the Desert Research Institute for up to $80,000 to complete watershed hydrosimulation modeling and analyze the vulnerability of catchment areas in the Lake Tahoe Basin to climate change.