

# THE REDWOOD RESILIENCY PROJECT



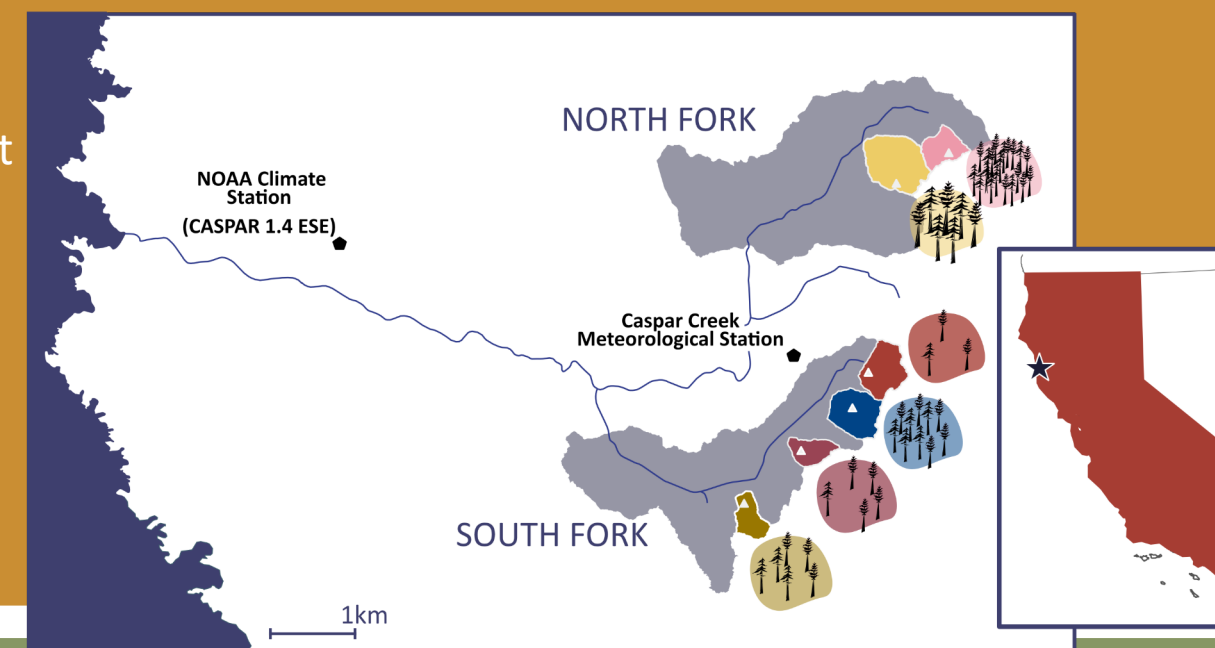
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## Driving Questions

- How does fuel moisture vary with soil moisture in 10-, 100- and 1000-hr fuels and how do these relationships vary with management history?
- How does tree transpiration respond to atmospheric and soil water variability and how do management history and species water use strategy influence these relationships?
- How do tree productivity and water stress vary with management history?

## Methods

- 6 sub-watersheds; unique management history reflective of regional coast redwood forests
- Continuous sap flux, soil moisture, fuel moisture, and microclimate data
- Spatially randomized fuel/soil moisture sampling
- Tree cores and carbon isotope analysis



## Management Implications

Forest management in coast redwood forests is ecologically and economically important but may alter hydrologic dynamics and fuel characteristics. We aim to identify how forest treatments influence ecohydrologic function, support tree growth, and alter fuel loading and moisture dynamics, so that forest management can optimize ecosystem resilience to drought and fire.

## Funding and Partners

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