



Broadly representative of the climate space of contemporary forests, the network captures most of the range of modern wildfire at the continental scale, and all of it in the western mountains.

This exceptional geographic coverage

Is matched with temporal depth, covering much of the last 300-500 years in many regions

\* Margolis, Guiterman, and 84 co-authors, 2022, *Ecosphere* 

## Explore it for yourself!





(a) Fire-scar data network



# The North American Tree-Ring Fire Scar Network











## **Indigenous fire management**

In spaces and during times of more intensive (nongrazing) land use, three different cultural groups show the same pattern of burning in years with relatively low fuel abundance.





## The fire deficit

2020 was a record fire year 2020 with >10 million acres burned. By comparison that's only a 1-in-3 year event historically.

Across Arizona and New Mexico, modern fire activity is on the rise, but is yet to reach background levels of historical fire activity

\* Papers in progress



### **Seasonal progression**

The timing of fire shifts from spring to mid-summer ahead of the North American Monsoon.

The build-up of fuel moisture, here quantified as the number of days until 10 mm precipitation has fallen since June 1, acts to extinguish fire spread.

\* Paper in progress