

The world as we knew it, before summer 2024

California subalpine forest trees with recorded elevations above 3500 m (11,484') plus Jeffrey pine for comparison

Species	Name	Jepson elevations	CCH1 highest elevation (m)	GBIF highest elevation (m)
Pinus albicaulis	Whitebark pine	2000-3700	3658 (12,000')	3658 (12,000')
Pinus balfouriana	Foxtail pine	2700-3700	3225 (10,581')	3688 (12,100')
Pinus contorta m.	Lodgepole pine	1000-3500	3658 (12,000')	3658 (12,000')
Pinus flexilis	Limber pine	1830-3700	3658 (12,000')	3536 (11,602')
Pinus longaeva	Bristlecone pine	2200-3700	3658 (12,000')	?
Tsuga mertensiana	Mountain hemlock	1200-3500	3444 (11,300')	?
Pinus jeffreyi	Jeffrey pine	450-3100	3291 (10,798')	3441 (11,290')

Jeffrey pine is the dominant pine in California montane forests between 1500 and 2500 m elevation, sometimes found in lower subalpine forests on warm slopes

Then I took a hike on the High Sierra Trail... September 2024

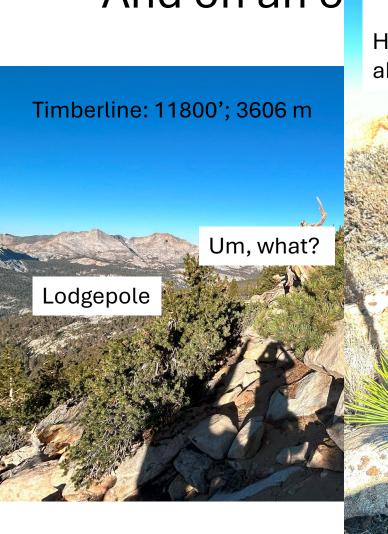


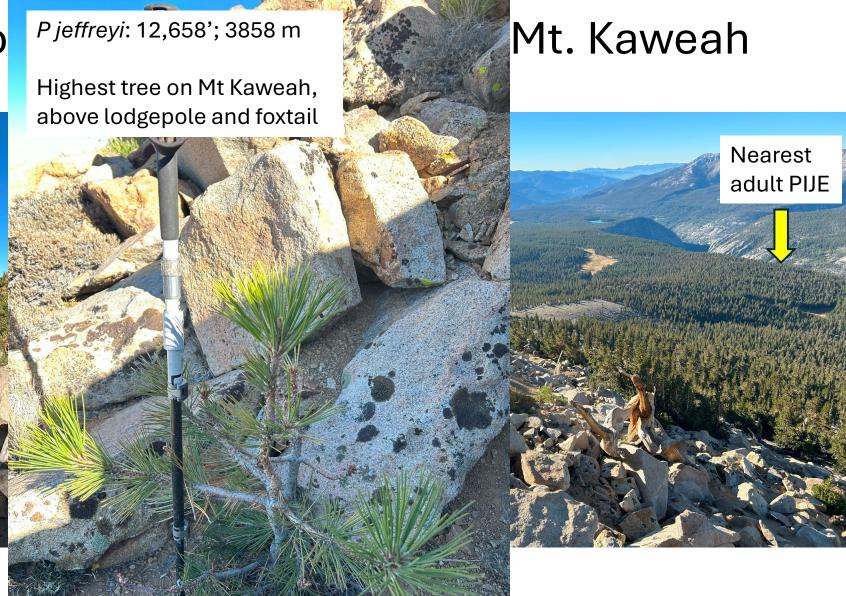


The Kaweahs from Wallace Creek, looking across the Kern River Canyon

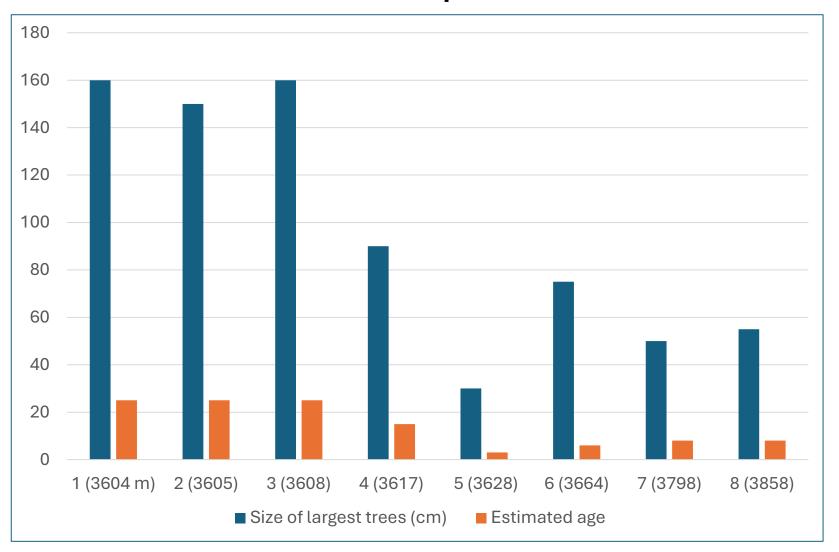
Mt. Kaweah from the Chagoopa Plateau

And on an o





My day in the mountains turned into a science expedition



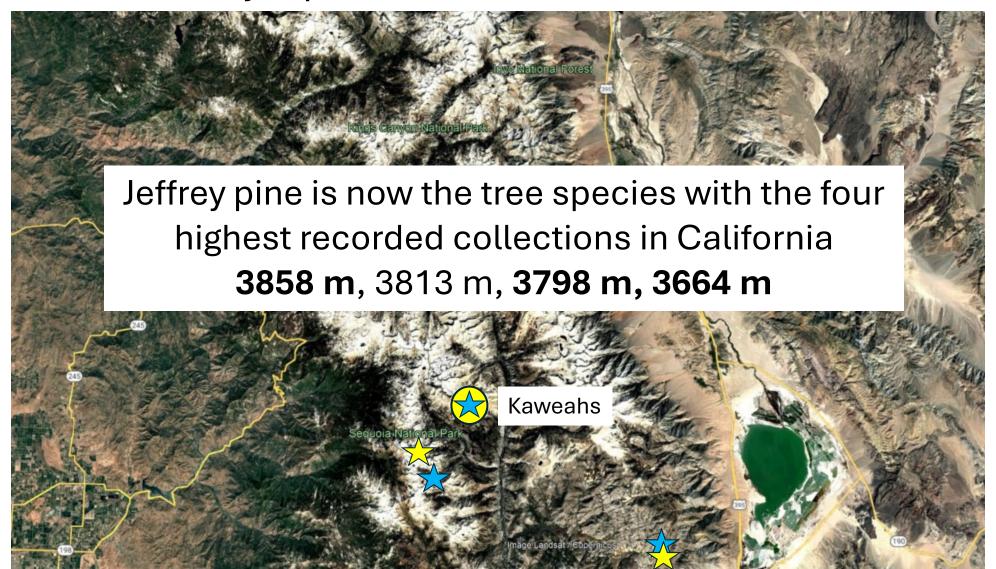


Clues to Mt Kaweah PIJE:

- Nonreproductive (no cones)
- Upper branches on large trees are dead
- Oldest trees are c. 25 yrs
- Population gets smaller and younger with elevation
- Nearest adult PIJE are 2.5 km distant and 600 m lower
- Jeffrey pine seed 4.5x heavier than Foxtail pine



Locations with Jeffrey reported/collected from above 3200 m elevation



Guess what I'm doing next summer?

