

# Californië (26/08 – 14/09/2022)

- Meest bevolkt
- Duitsland < CA < Frankrijk
- Hoogste (Mt. Whitney 4.421 m) en laagste (Badwater -85 m) van de 48
- Alaska > Texas > CA
- 1.220 km lang, 400 km breed



# United States Painted Relief



Hawaii

Pacific Basin

Northern  
Marianas

Guam

American Samoa

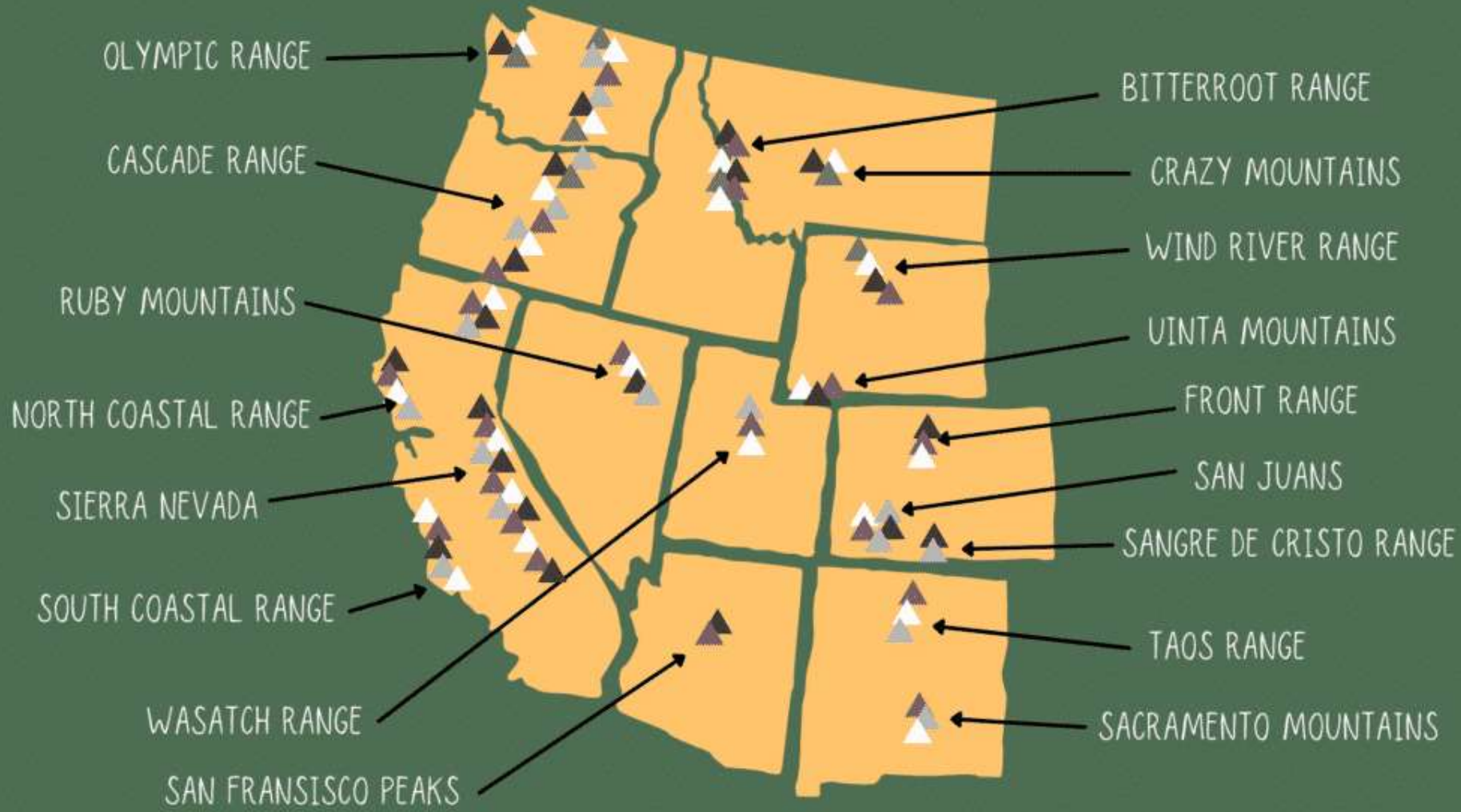
Alaska

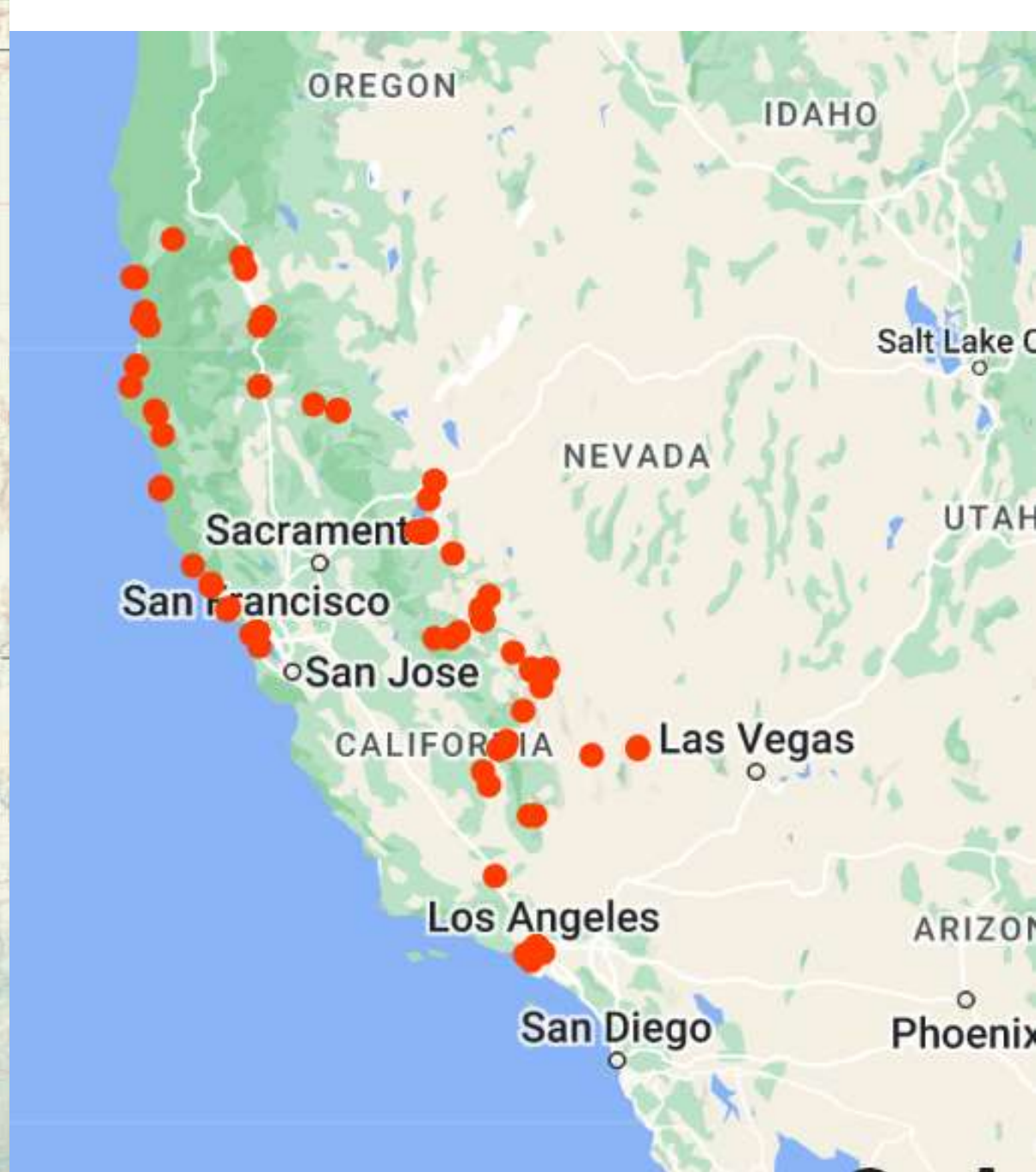
U.S. Department of Agriculture  
Natural Resources Conservation Service  
Resource Assessment Division  
Washington DC January 1999

Data Source: US Geological Survey

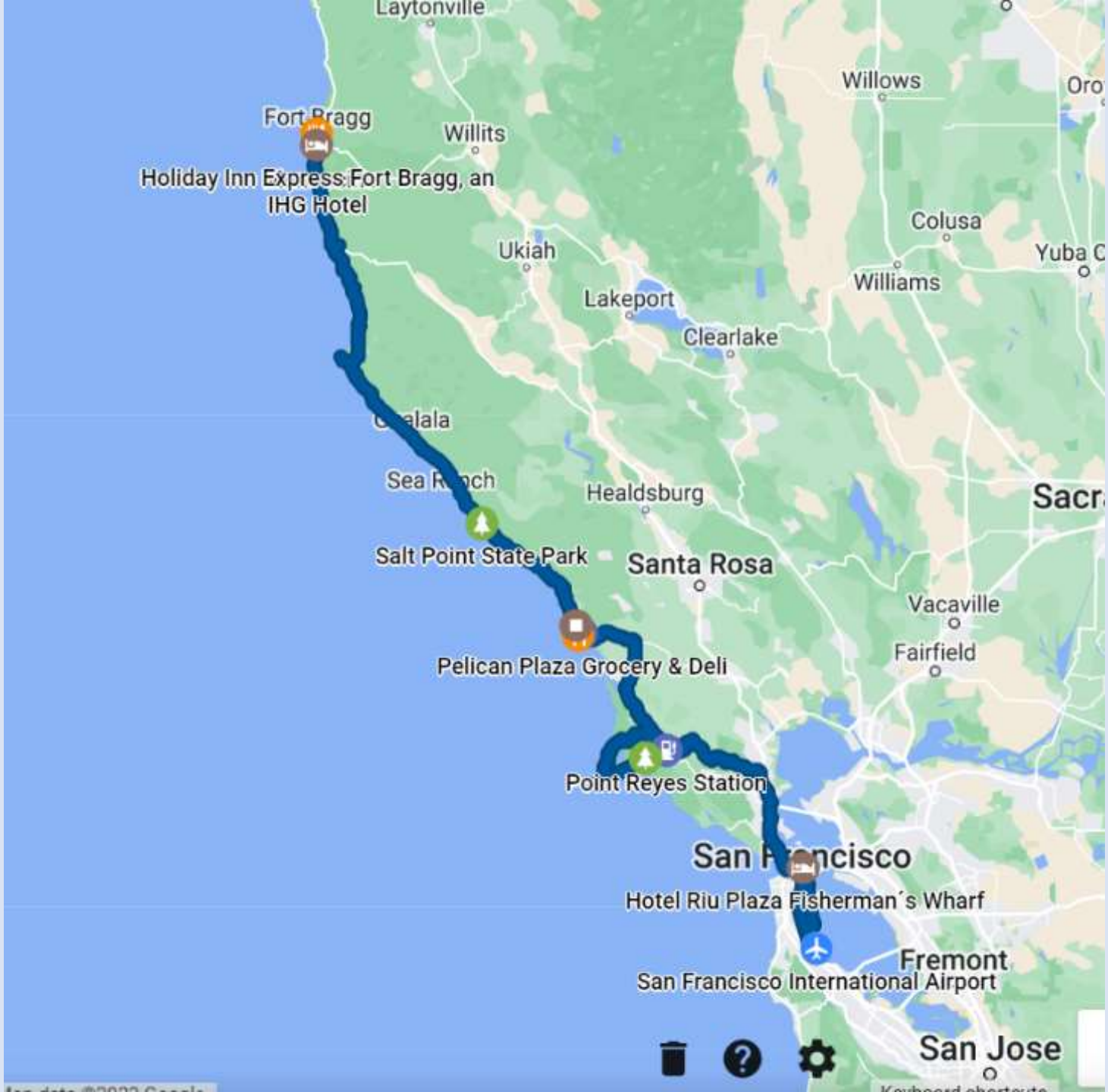
Puerto Rico / U.S. Virgin Islands

# MOUNTAIN RANGES OF THE AMERICAN WEST









Fort Bragg  
Holiday Inn Express Fort Bragg, an  
IHG Hotel

Salt Point State Park  
Pelican Plaza Grocery & Deli

Point Reyes Station  
San Francisco  
Hotel Riu Plaza Fisherman's Wharf

San Francisco International Airport

San Jose



Keyboard shortcuts



**Cupressus macrocarpa**  
**Monterey Cypress (Point Reyes)**

*Polypodium scolieri* (Point Reyes)  
Leather-leaf fern

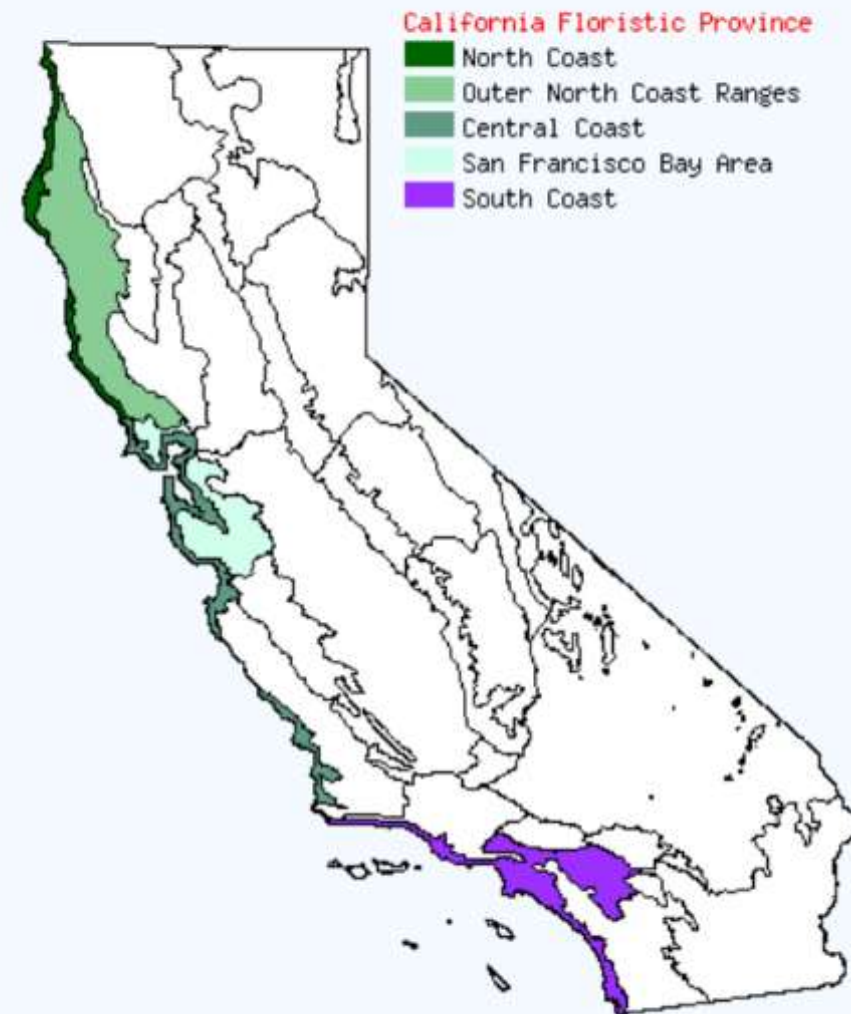




# Polypodium scouleri (Point Reyes) Leather-leaf fern



Geographic subdivisions for *Polypodium scouleri*:  
NCo, NCoRO, CCo, SnFrB, SCo

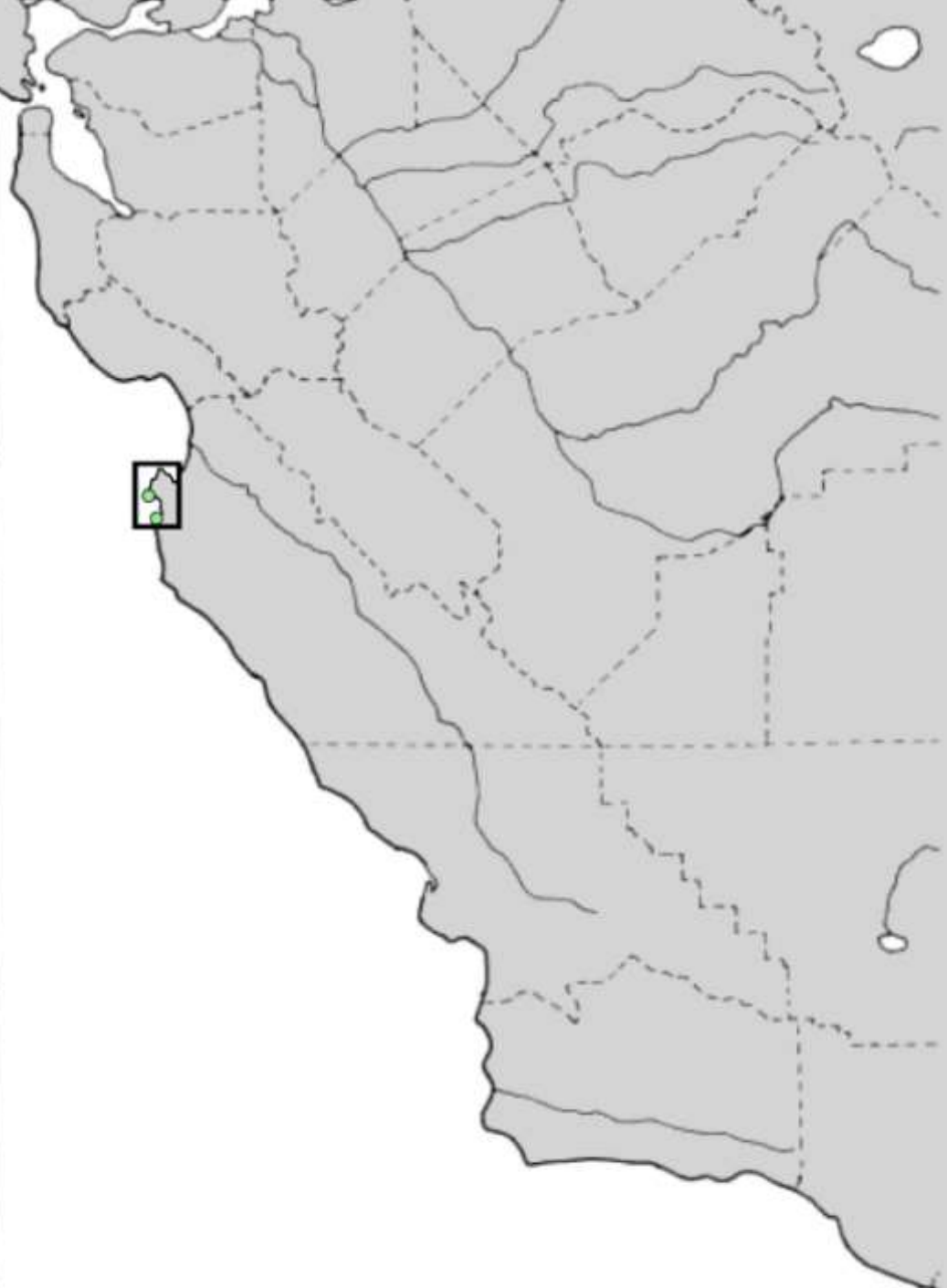


**Cupressus macrocarpa** Monterey Cypress  
Point Reyes













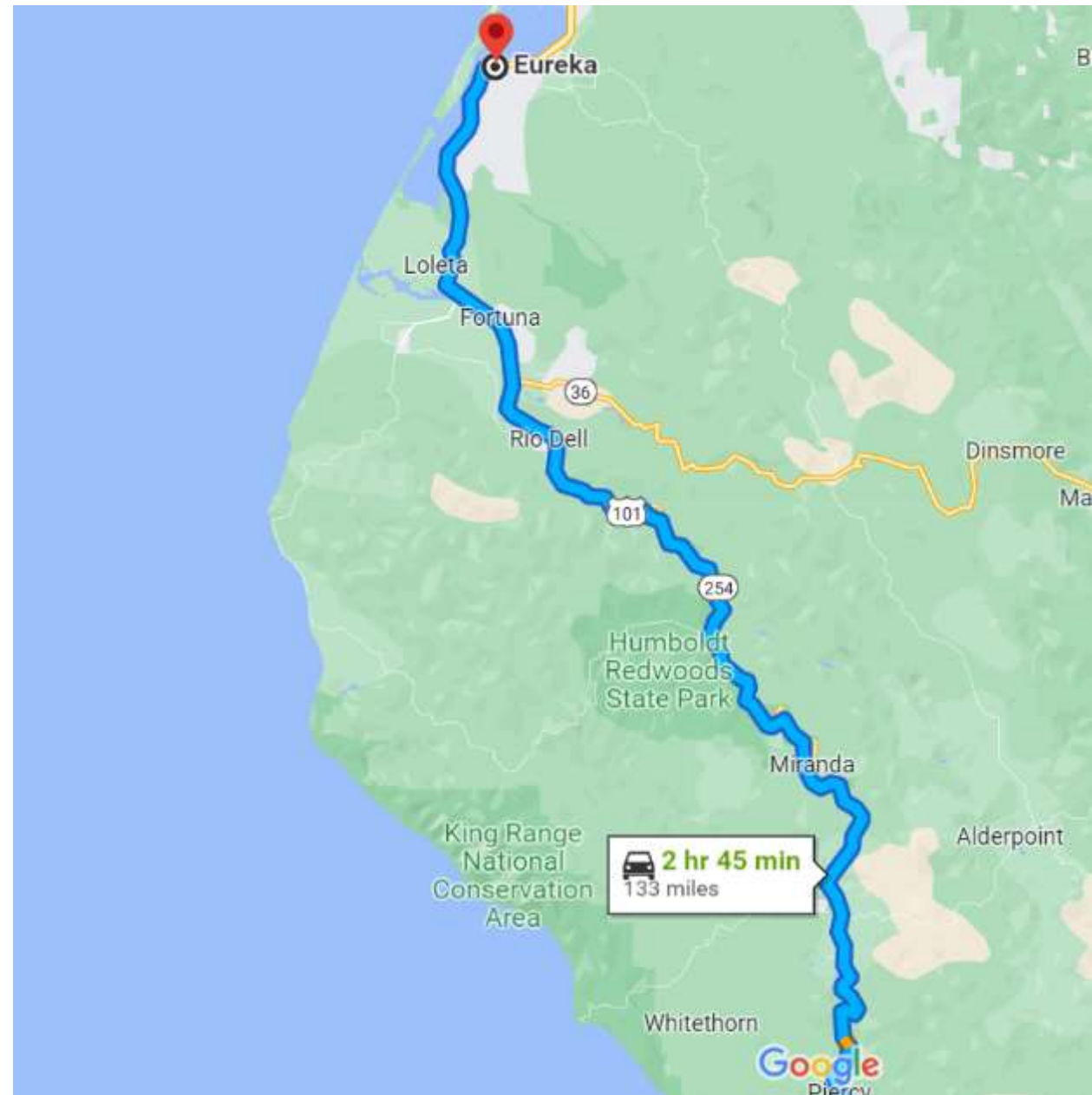
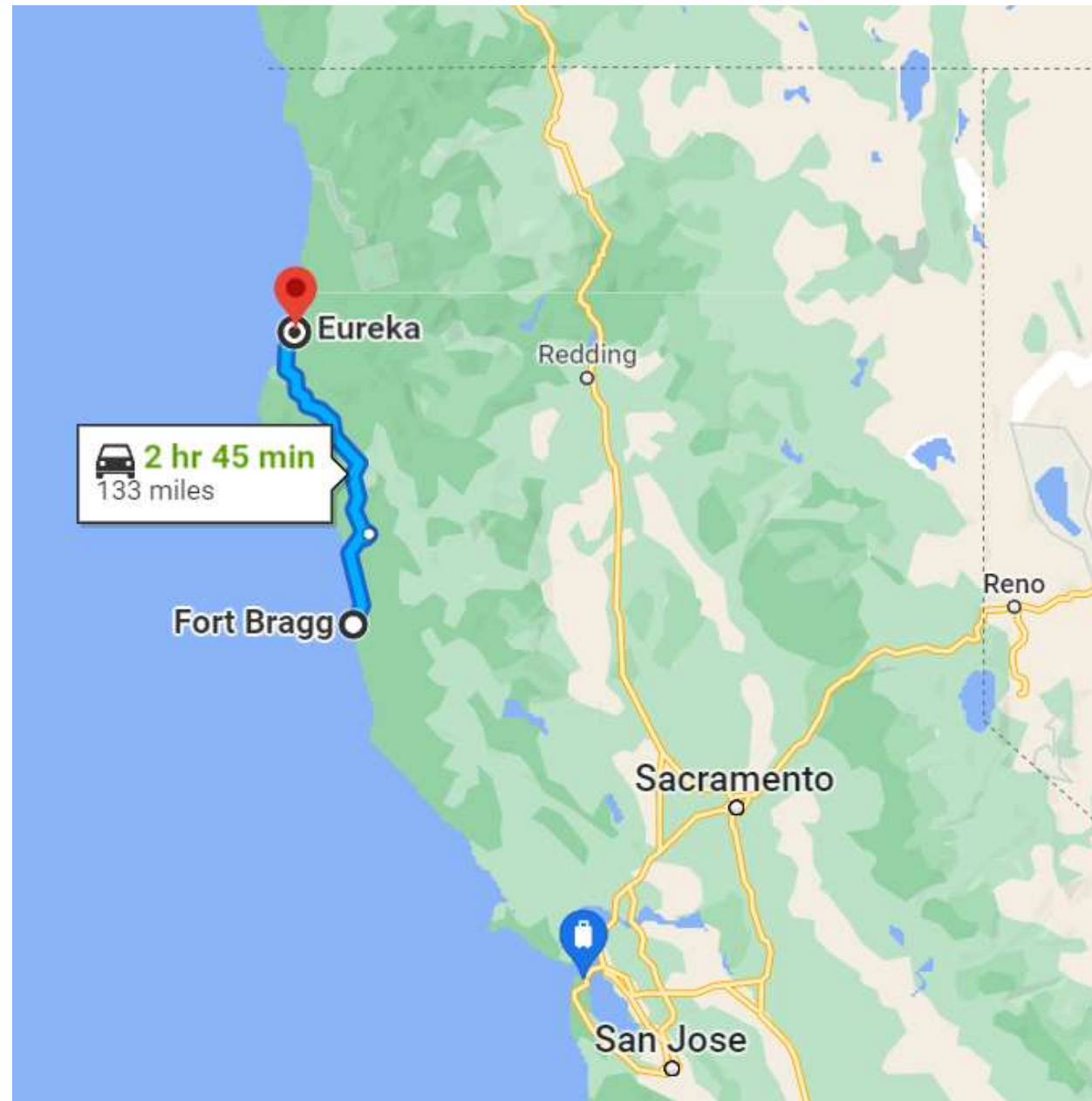
Point Arena



**Postelsia palmiformis, sea palm (Point Arena)**







*Ramalina menziesii* on *Cupressus macrocarpa*  
near Fort Bragg



*Sequoia sempervirens*  
Grandfather tree  
(Piercy)

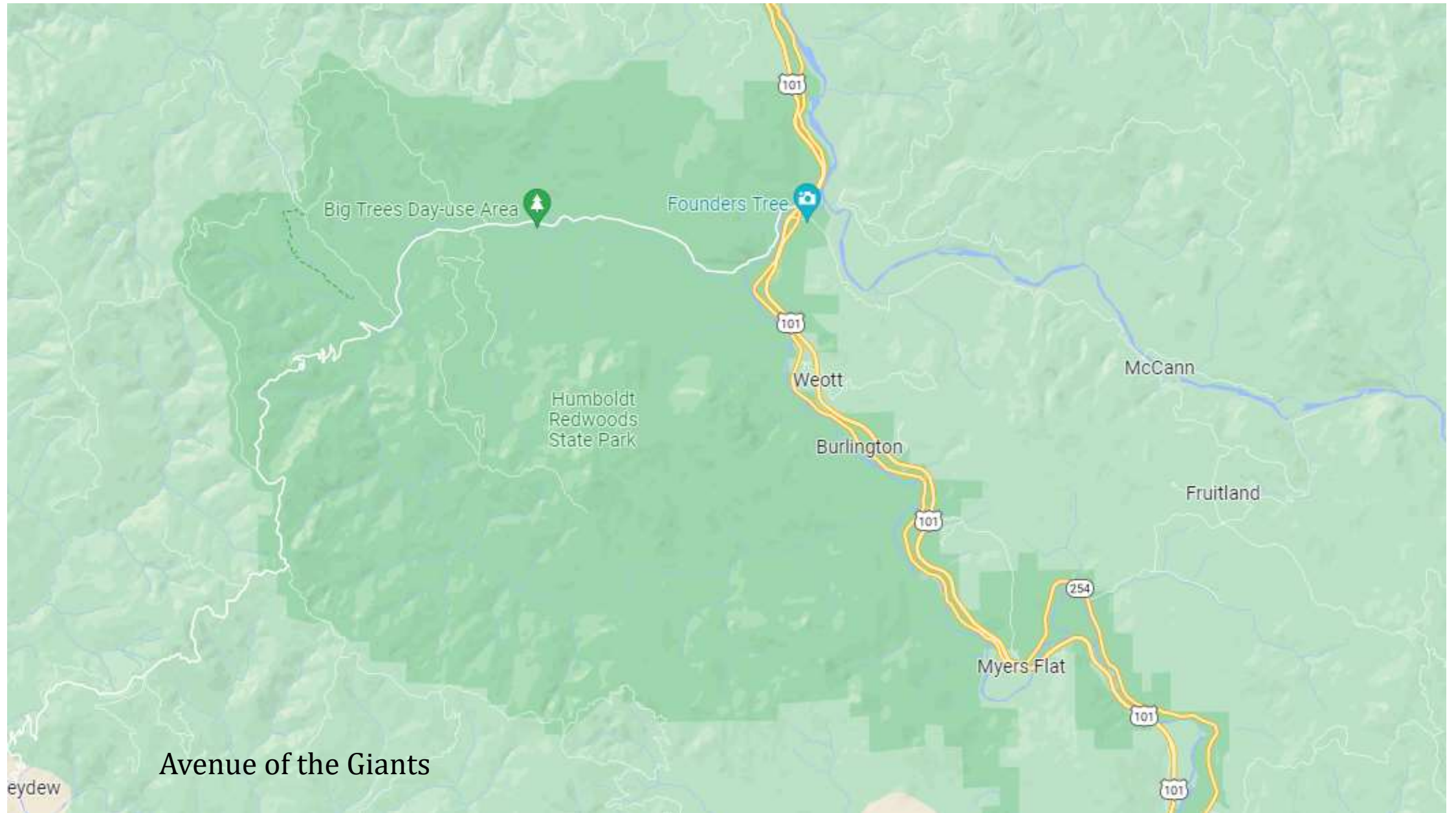


A large, mature tree with a thick, textured trunk and a dense canopy of bright green, lobed leaves. The tree is the central focus of the image, with sunlight filtering through the foliage. In the background, other trees and a paved path are visible. A small brown sign is on the path to the right.

**Acer macrophyllum (Williams Grove - Avenue of the Giants)**



**Acer macrophyllum (Williams Grove - Avenue of the Giants)**



## Avenue of the Giants



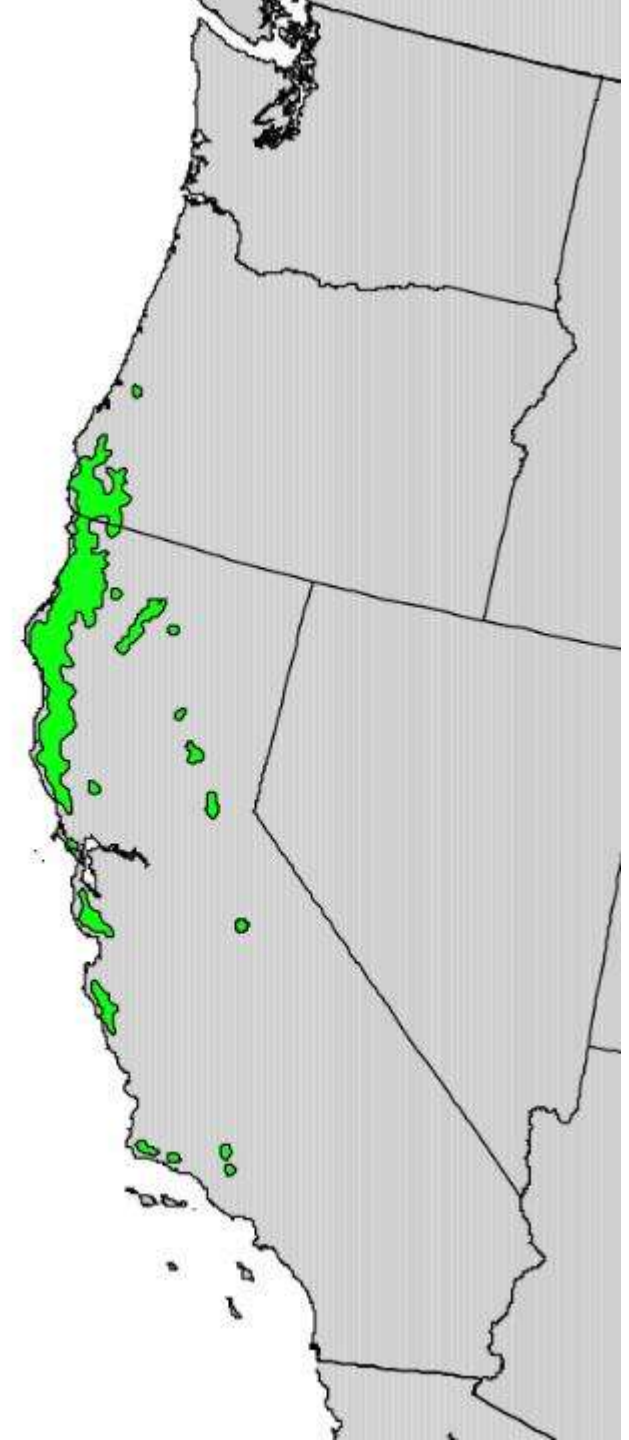
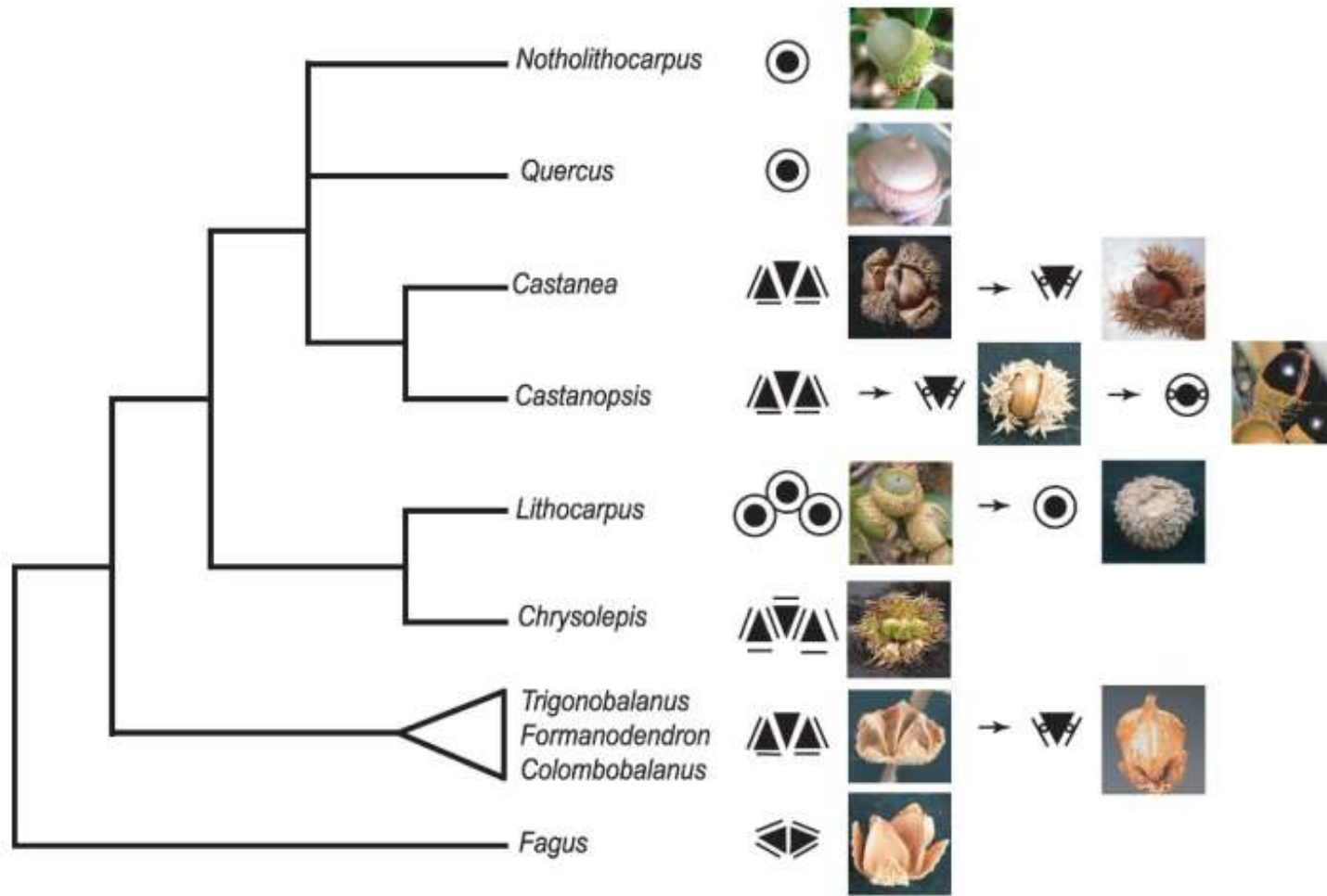






**Notholithocarpus densiflorus, tanoak  
(Avenue of the Giants)**







# Ferndale





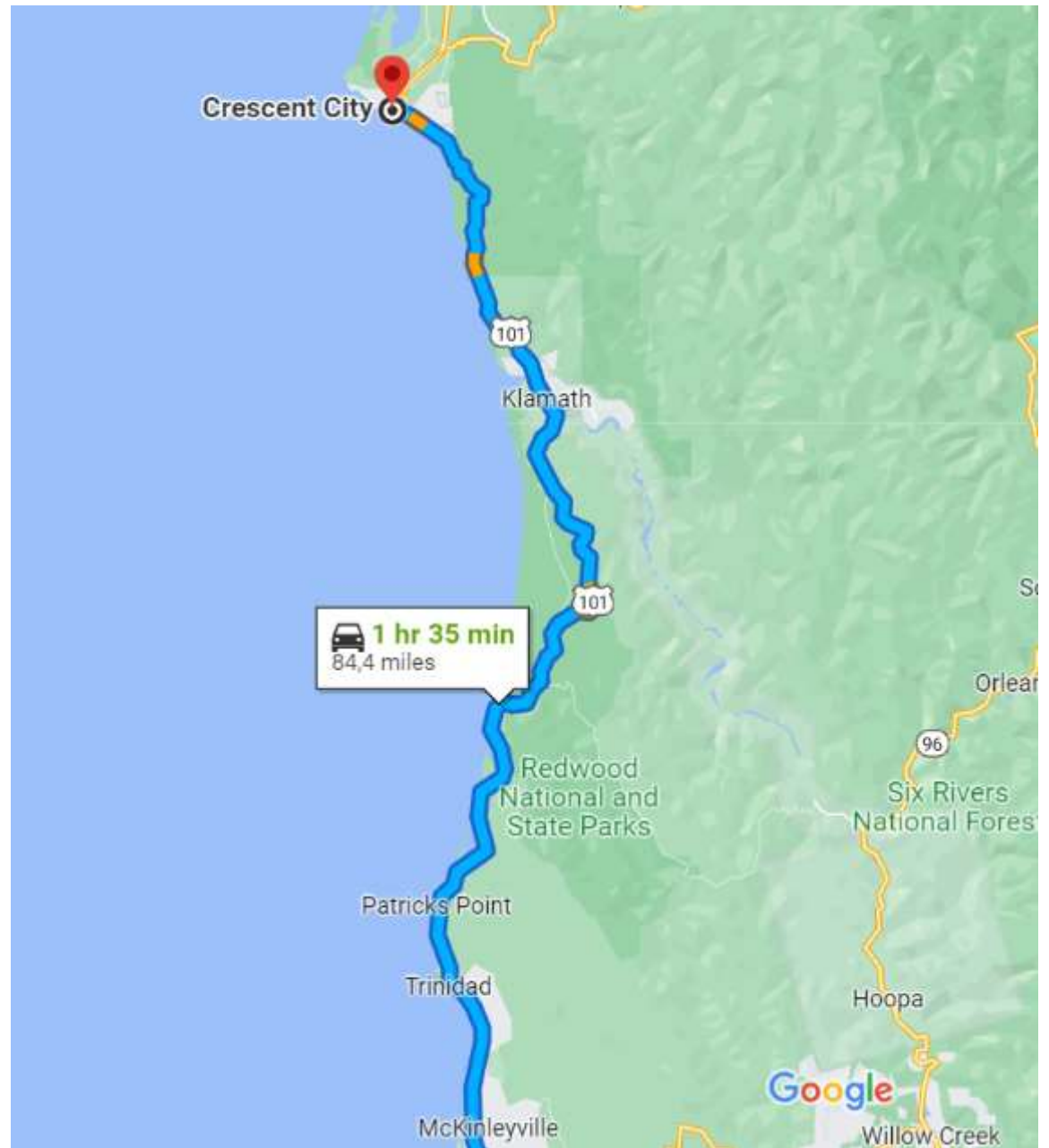
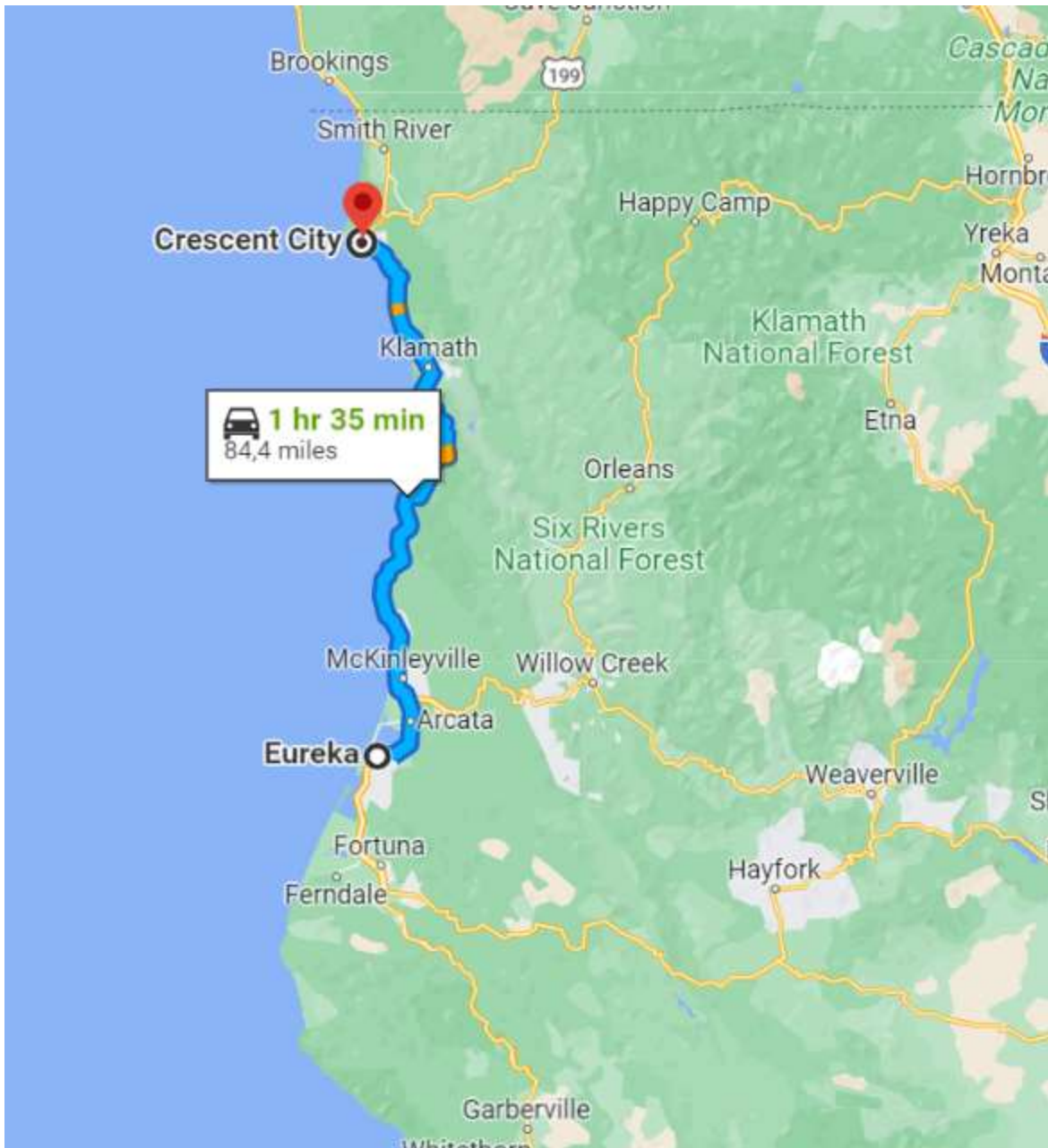
**Aesculus californica**  
**Ferndale**











***Abronia latifolia***

**Coastal or yellow sand-verbena  
beach near Eureka**

**psammophory**



***Abronia latifolia***

**Coastal or yellow sand-verbena  
beach near Eureka**

**psammophory**



**Cakile maritima**  
**beach near Eureka**



**Elk or Wapiti (*Cervus canadensis*)  
Prairie Creek - Redwoods State Park**







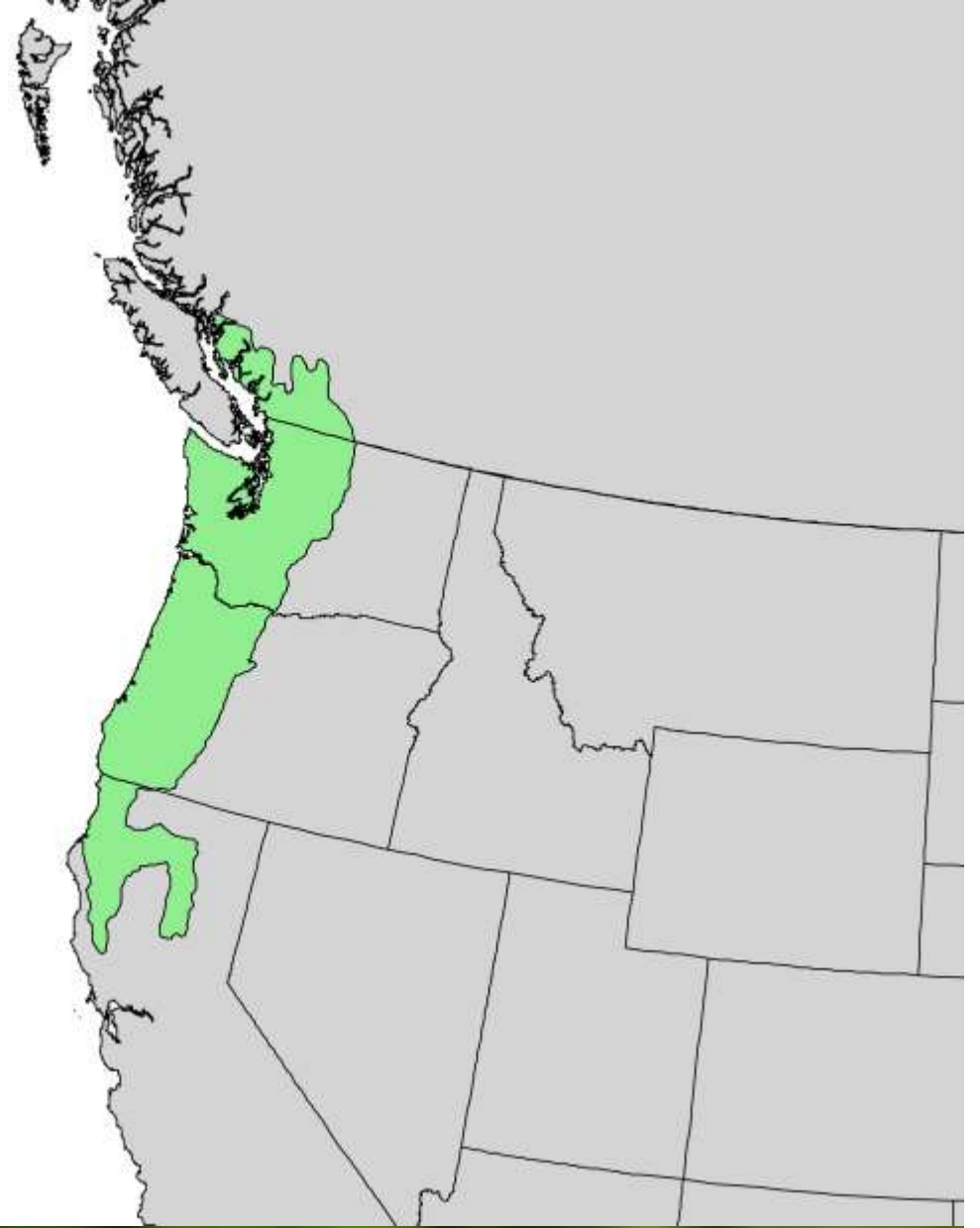
Lysichiton americanus –  
Polystichum munitum - Mahonia nervosa  
Prairie Creek Redwoods State Park



**Acer circinatum – vine maple**  
**Prairie Creek**  
**Redwoods State Park**



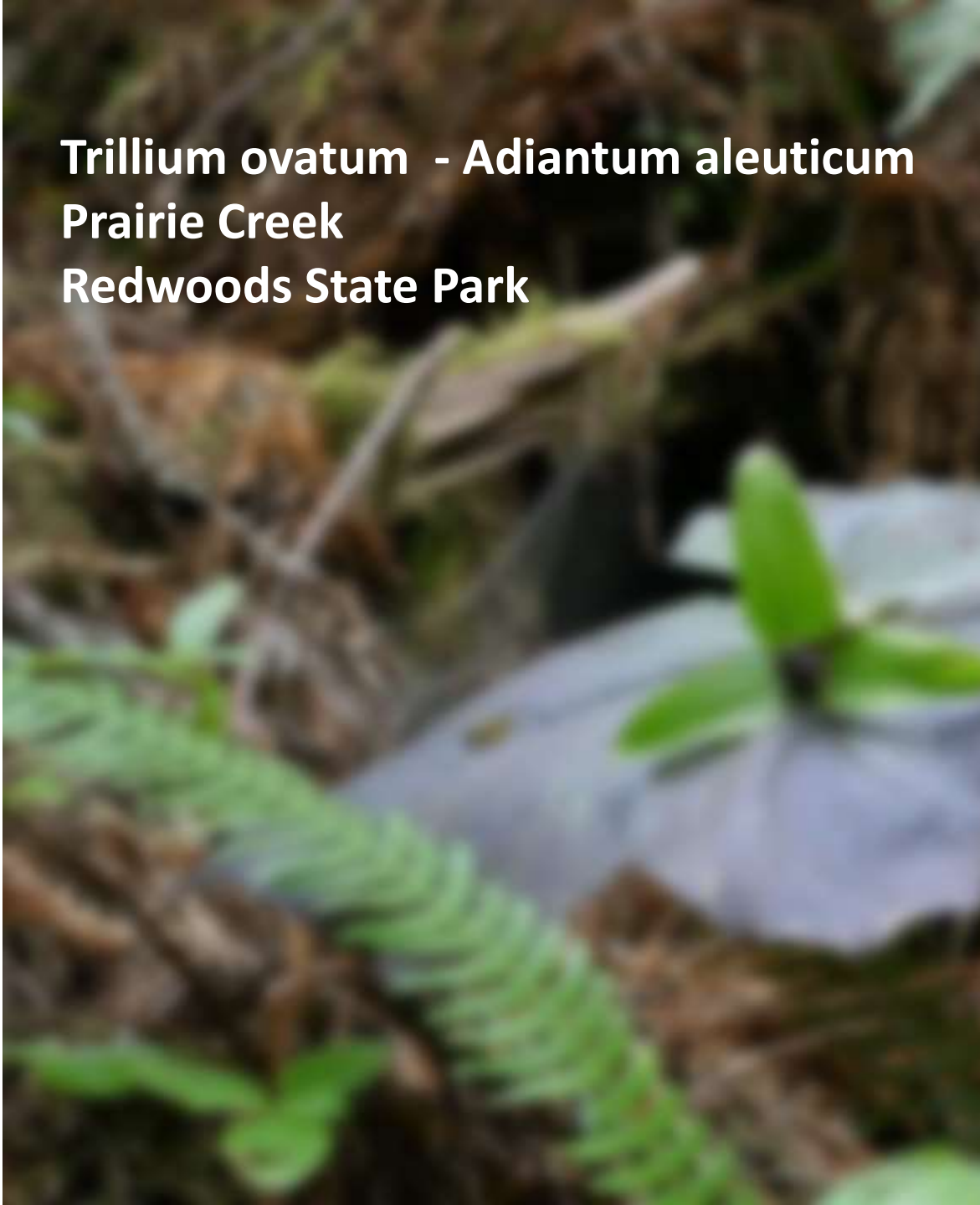
**Acer circinatum – vine maple**  
**Prairie Creek**  
**Redwoods State Park**



**Trillium ovatum - Adiantum aleuticum**  
**Prairie Creek**  
**Redwoods State Park**



**Trillium ovatum - Adiantum aleuticum**  
**Prairie Creek**  
**Redwoods State Park**



*Picea sitchensis*



*Sequoia sempervirens*



*Pseudotsuga menziesii*





**Ariolimax columbianus**  
**Pacific banana slug**



*Clintonia andrewsiana*  
Red clintonia



**Clintonia andrewsiana**  
**Red clintonia**



**Maianthemum racemosum**





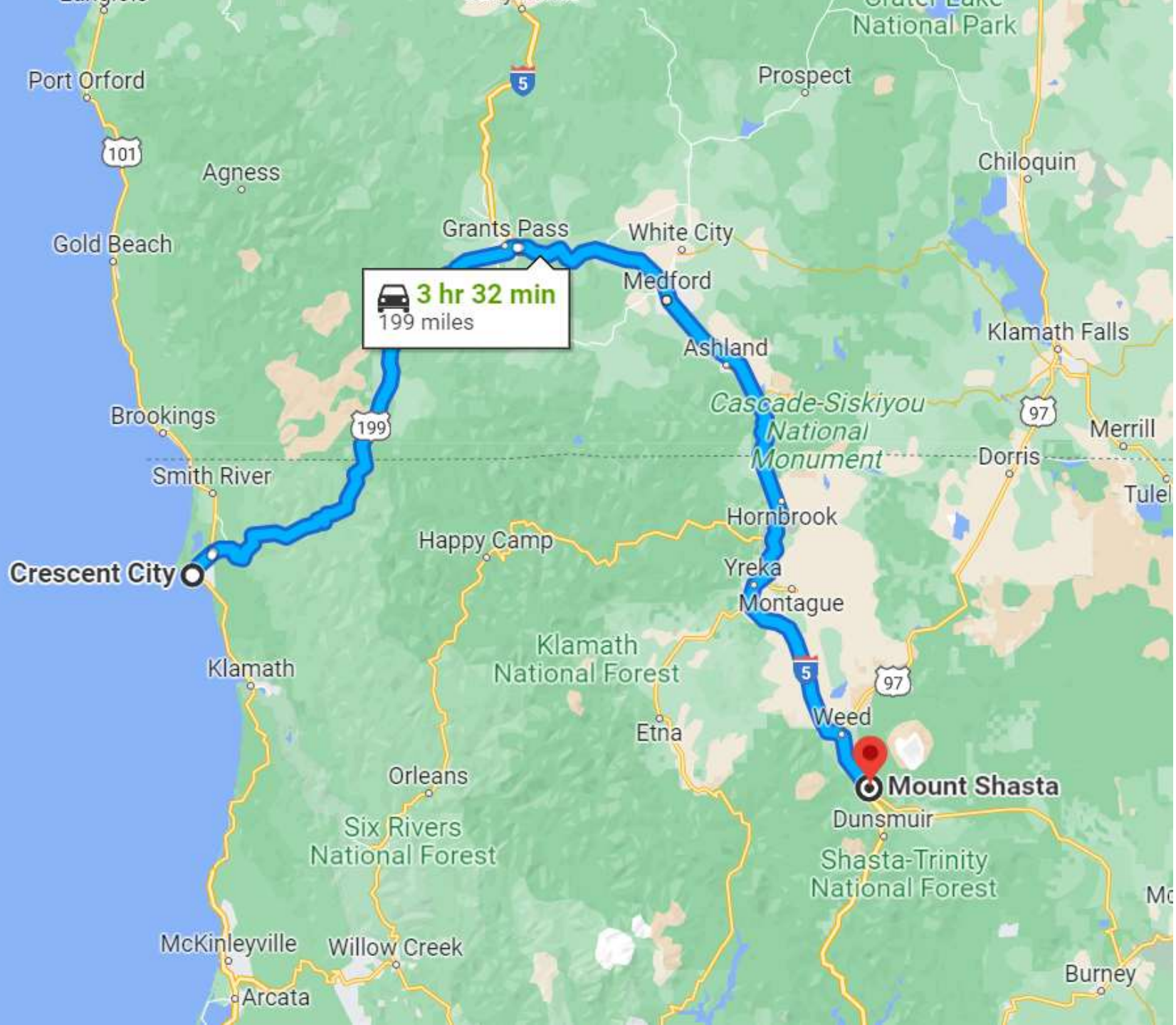
**Goodyera oblongifolia**





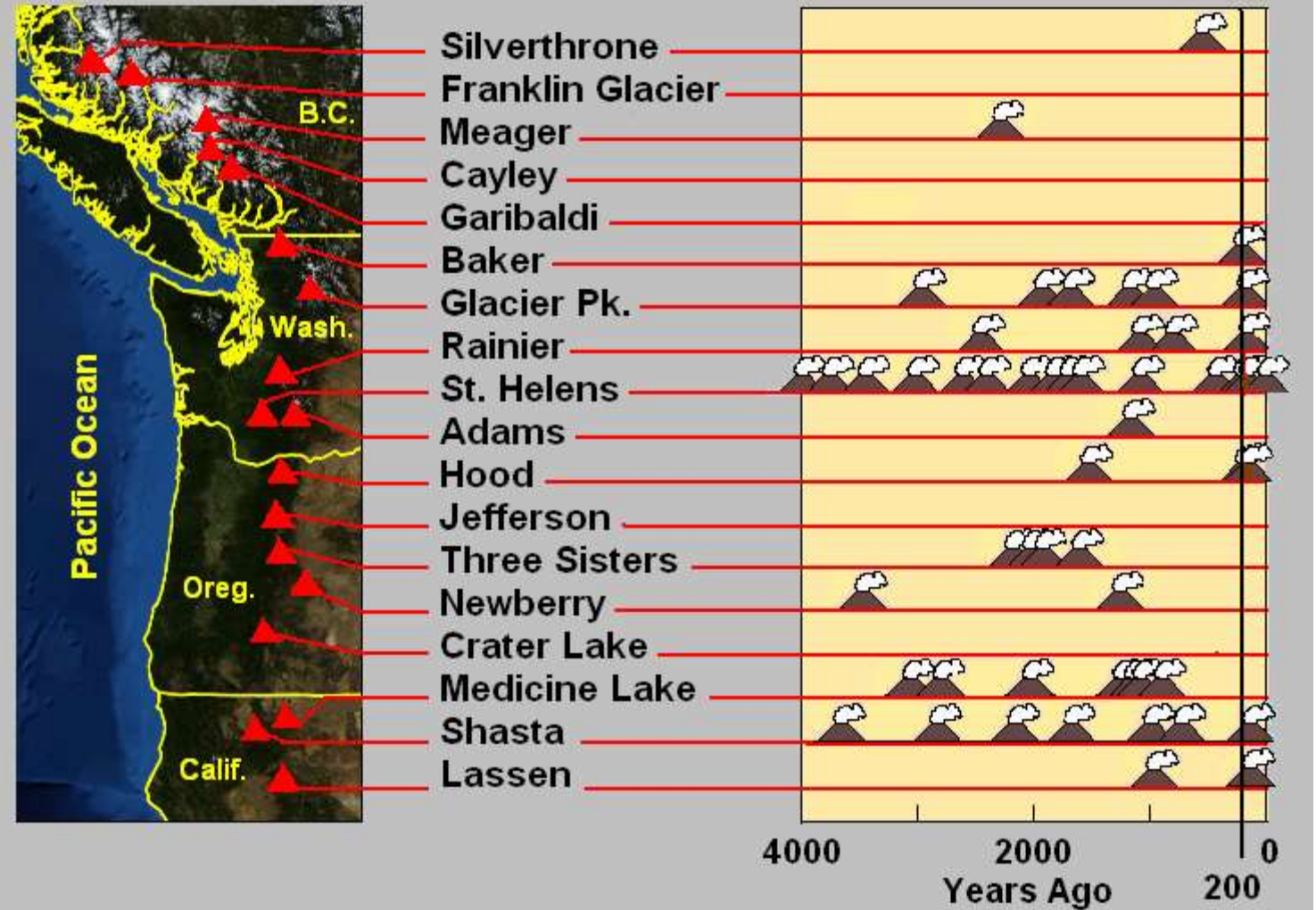
## BIG TREE #16

	FEET	METERS
HEIGHT	286	87.2
DIAMETER	23.7	7.2
CIRCUMFERENCE	74.5	22.7
ESTIMATED AGE	1500	YEARS



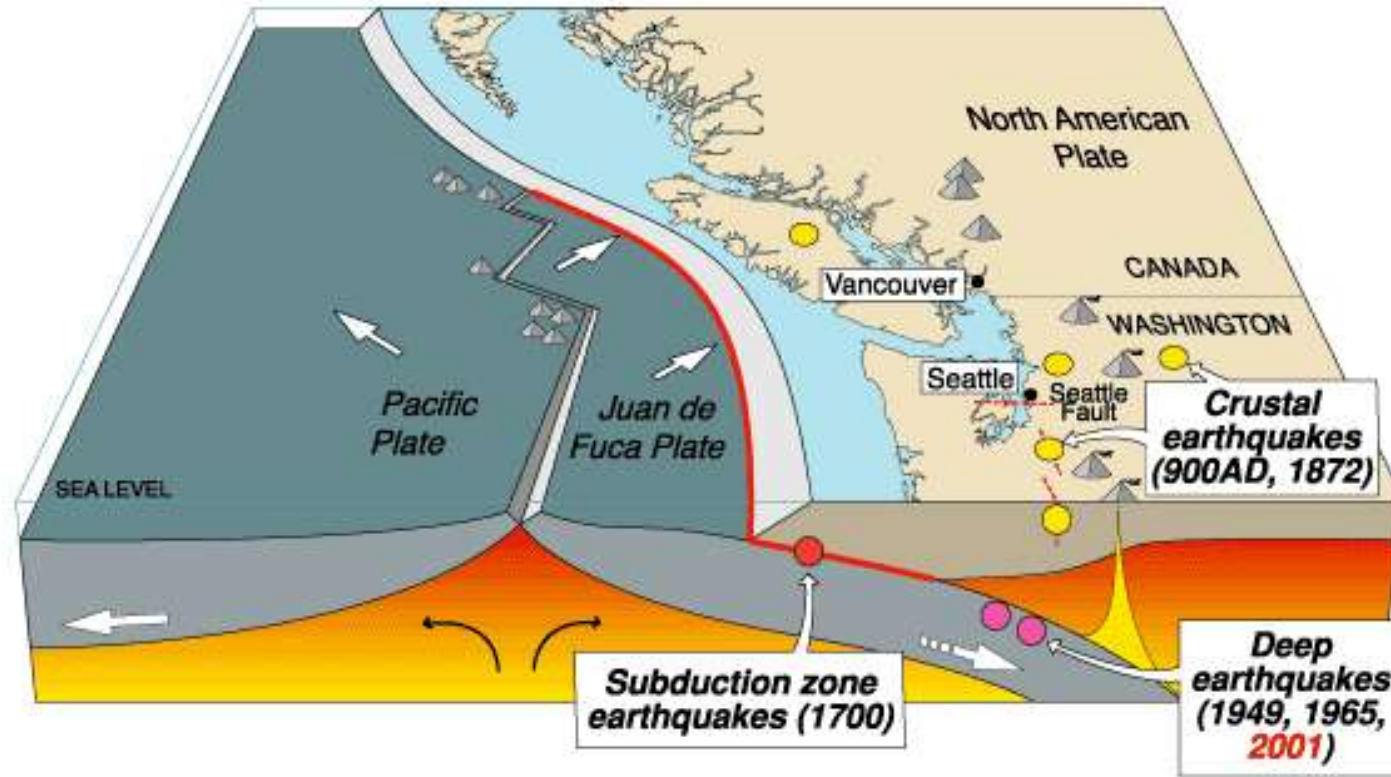


## Cascade Eruptions During The Last 4,000 years

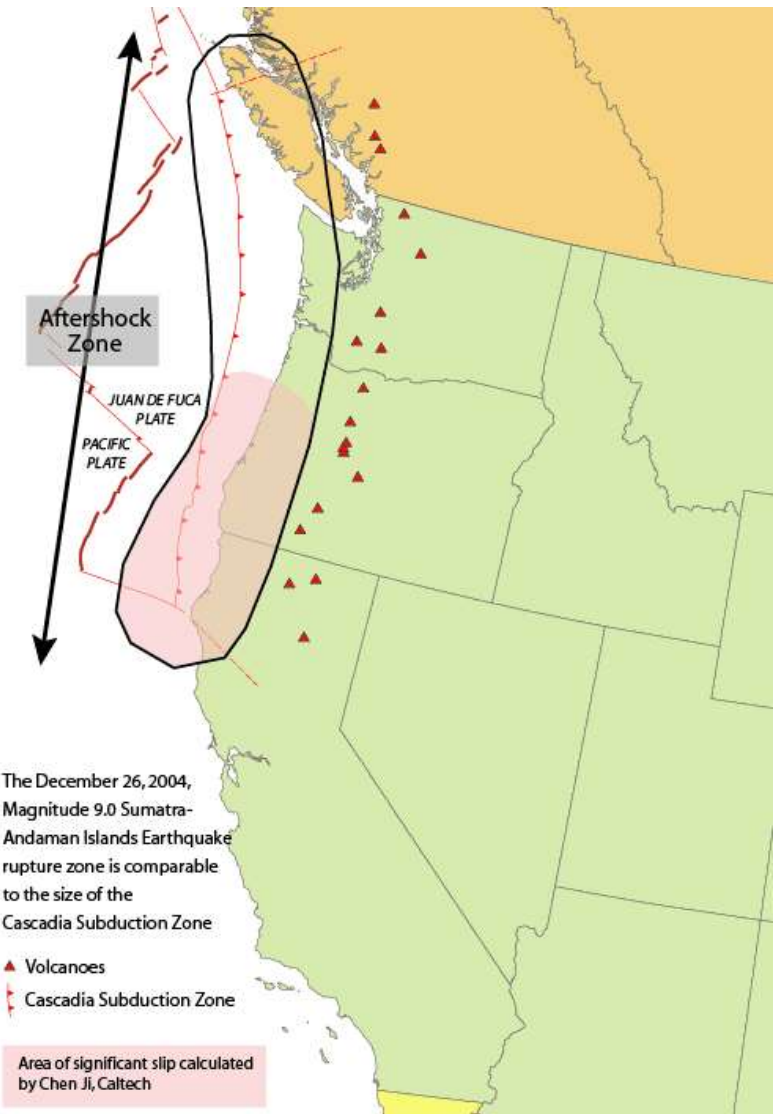


By Black Tusk - Own work, CC BY-SA 3.0,  
<https://commons.wikimedia.org/w/index.php?curid=5109264>

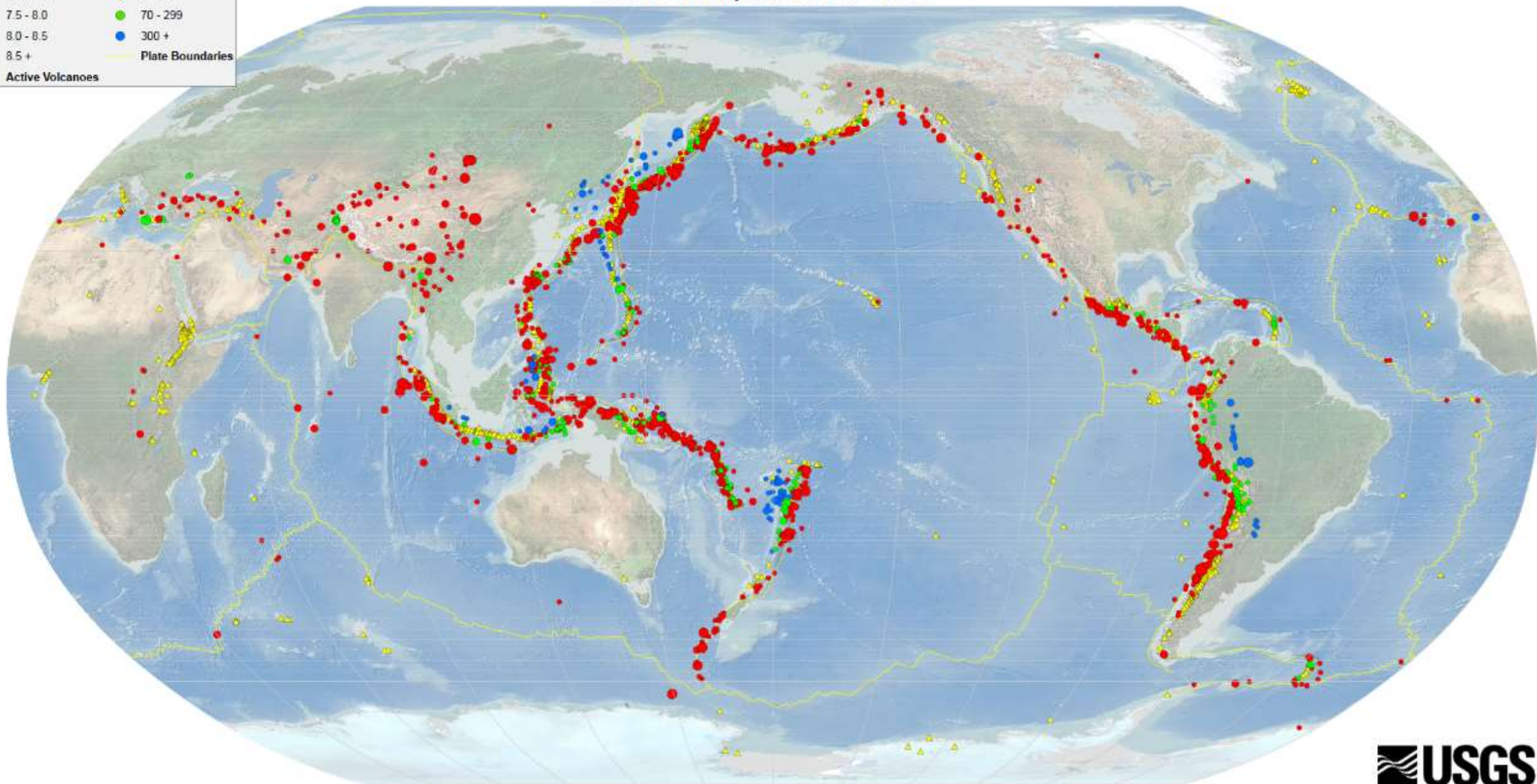
# Cascadia earthquake sources



Source	Affected area	Max. Size	Recurrence
● Subduction Zone	W.WA, OR, CA	M 9	500-600 yr
● Deep Juan de Fuca plate	W.WA, OR,	M 7+	30-50 yr
● Crustal faults	WA, OR, CA	M 7+	Hundreds of yr?



# Global Earthquakes 1900 - 2013



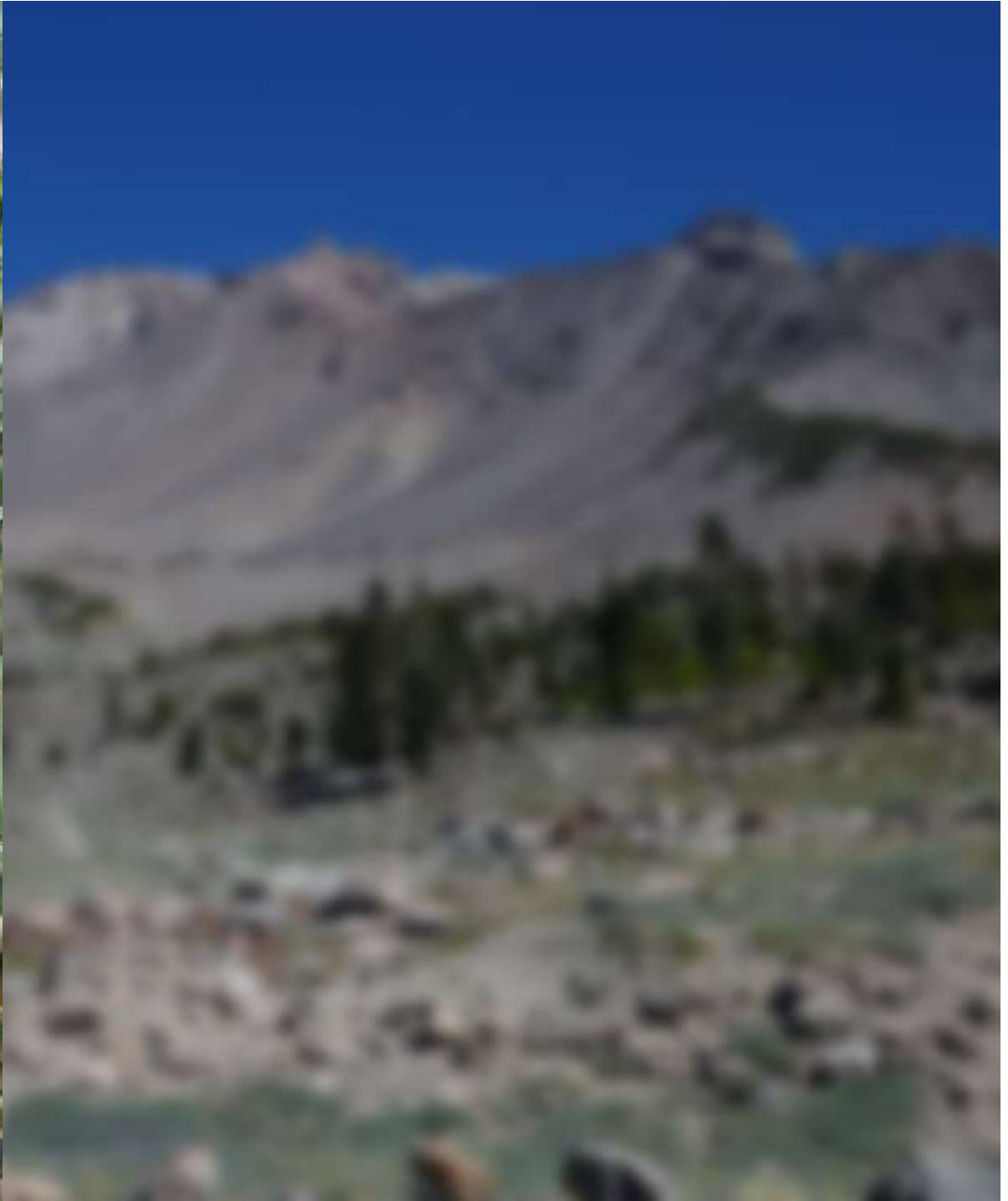








**Lupinus obtusilobus**  
**Mount Shasta**



**Pinus albicaulis**





**Clark's nutcracker**  
(*Nucifraga columbiana*)



***Abies magnifica* var. *shastensis***

***Pinus albicaulis***



***Abies magnifica* var. *shastensis***

***Pinus albicaulis***









*Tsuga mertensiana* subsp. *grandicona*  
California mountain hemlock



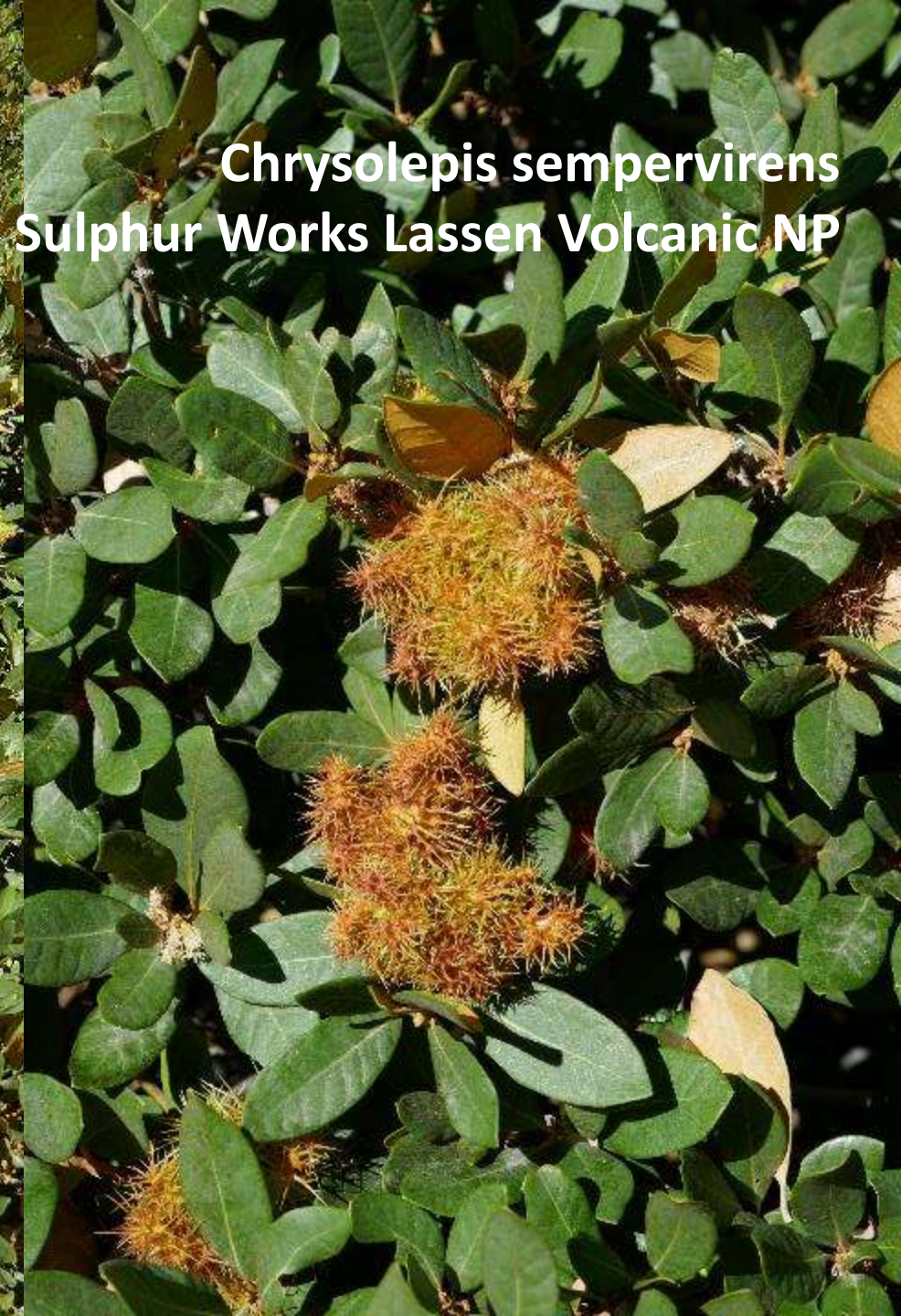






*Quercus chrysolepis*  
Canyon Overlook Paynes Creek





**Chrysolepis sempervirens**  
**Sulphur Works Lassen Volcanic NP**



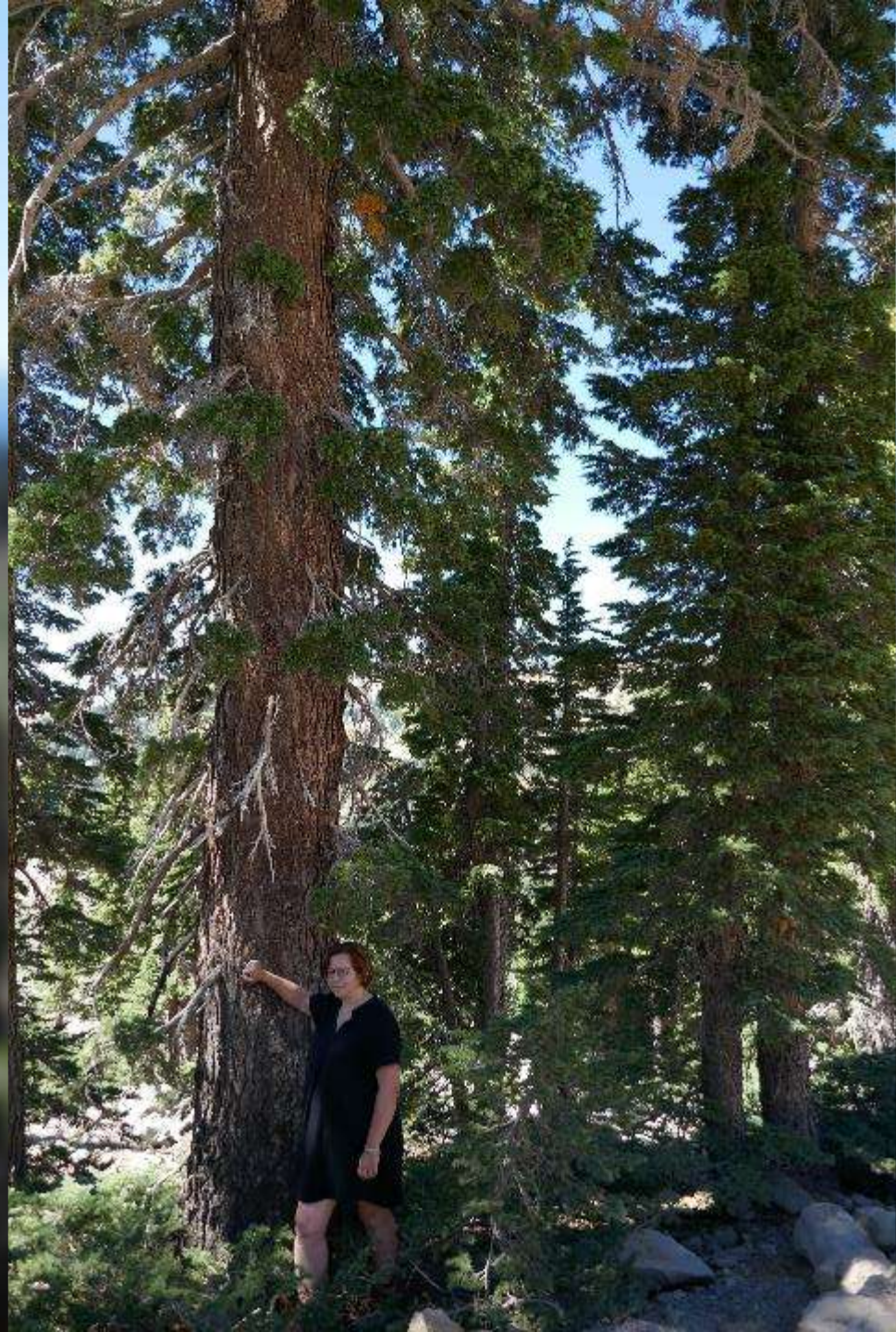




**Sambucus racemosa**  
**Bumpass Hell - Lassen Volcanic NP**



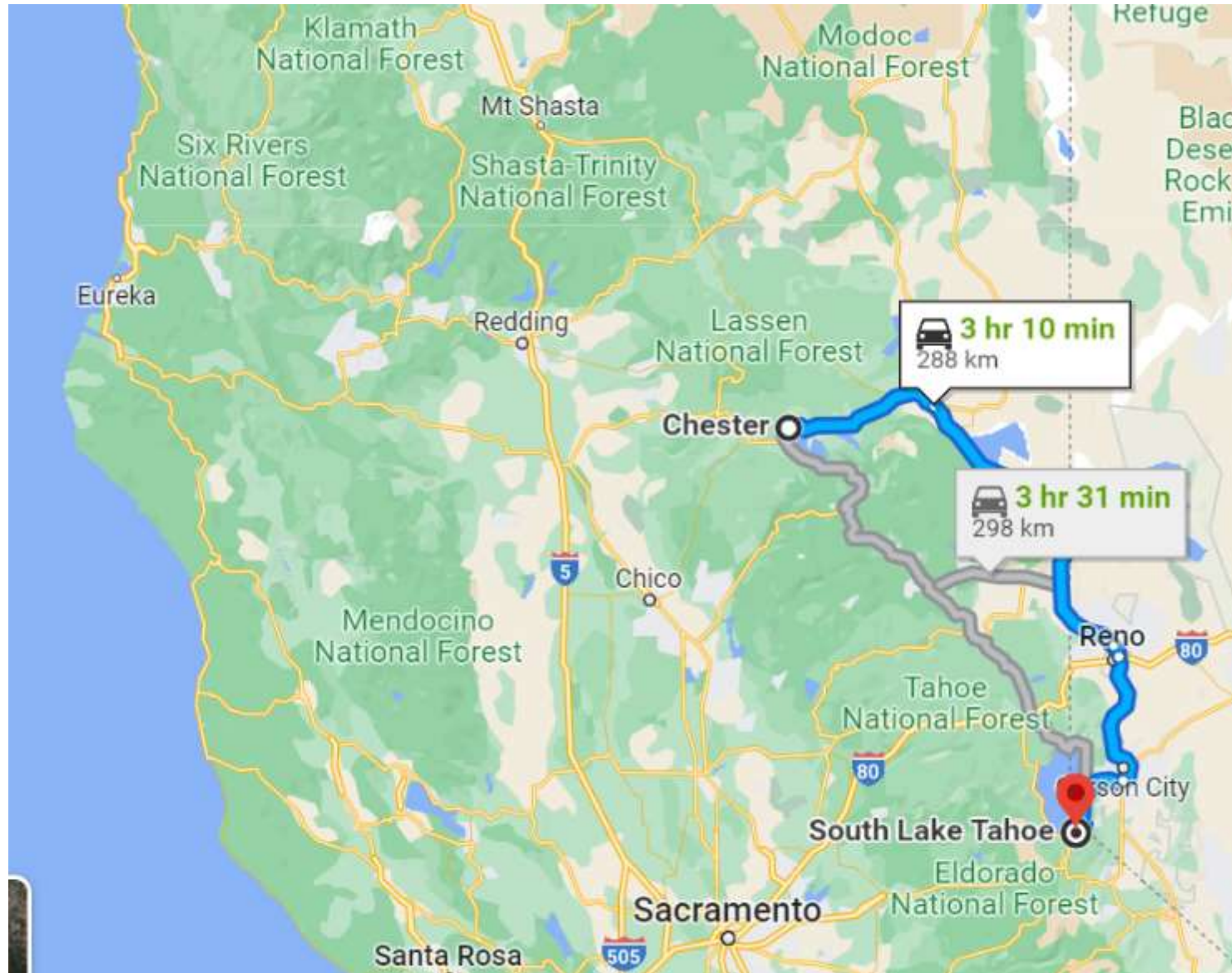










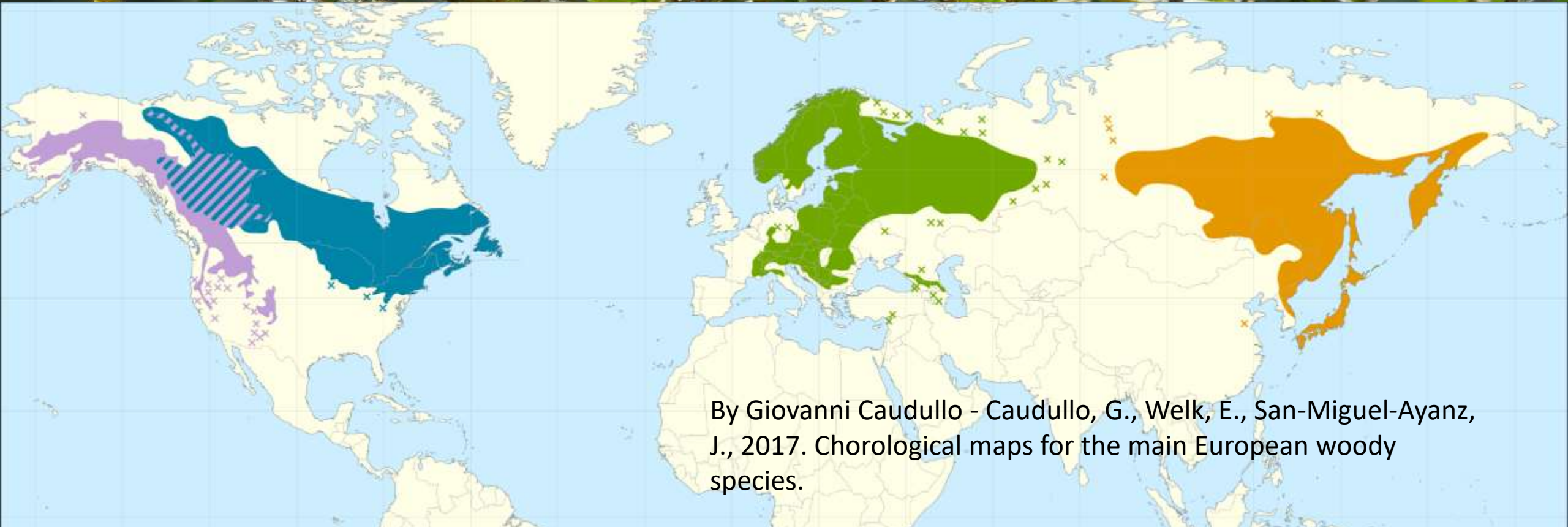








*Alnus incana* subsp. *tenuifolia*  
Emerald Bay - Lake Tahoe



By Giovanni Caudullo - Caudullo, G., Welk, E., San-Miguel-Ayanz, J., 2017. Chorological maps for the main European woody species.



**Abies concolor var. lowiana**  
**Emerald Bay - Lake Tahoe**





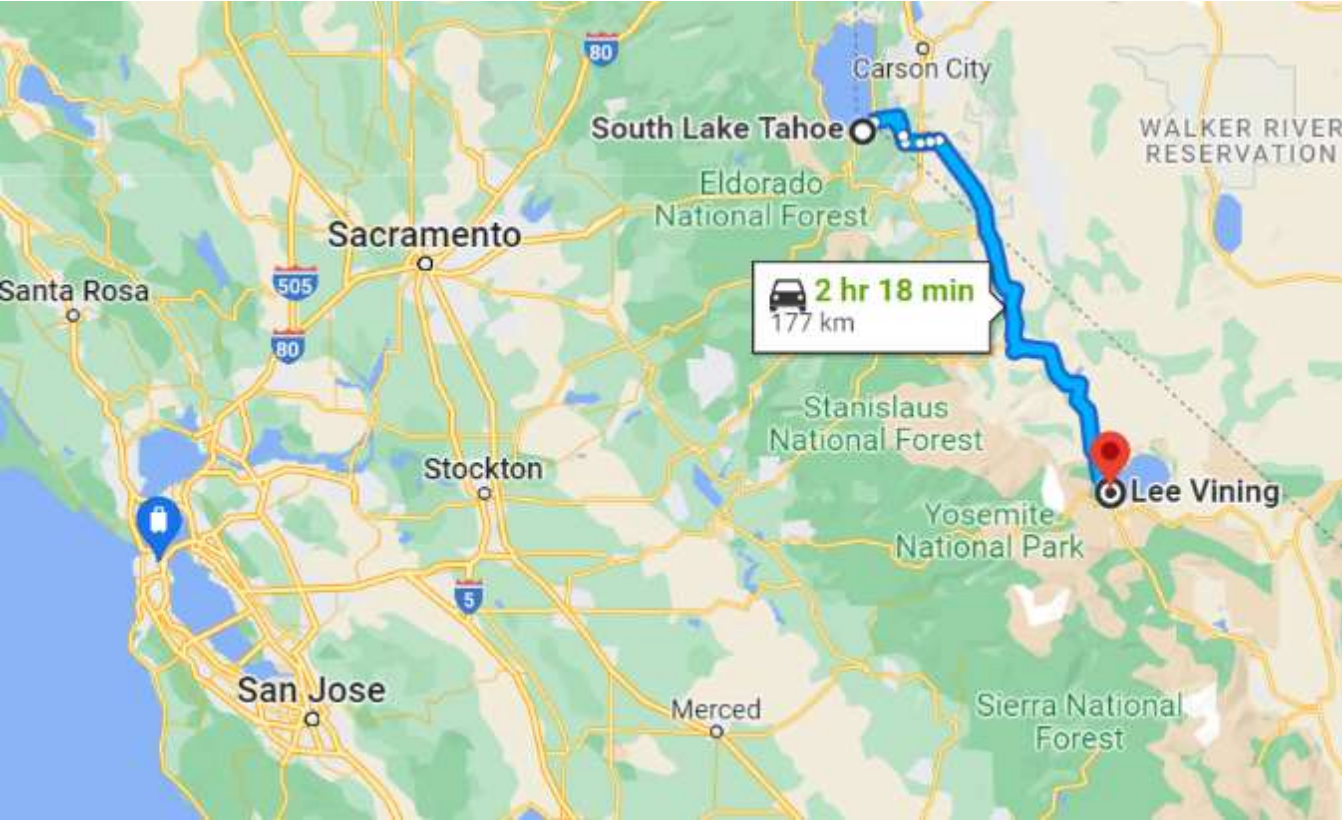
**Calocedrus decurrens**  
**Emerald Bay**  
**Lake Tahoe**



Populus  
tremuloides  
Emerald Bay  
Lake Tahoe



South Lake Tahoe to Lee Vining (east entrance to Yosemite)







# Bodie

- Boom town 1876
- Ghost town 1915





Mono  
Lake



Mono  
Lake





**Amerikaanse kluut (*Recurvirostra americana*)**  
**Grauwe franjepoot (*Phalaropus lobatus*)**

**Gentiana newberryi**  
**Yosemite NP**





**Gentiana newberryi**  
**Yosemite NP**



**Pinus contorta subsp. murrayana**  
**Yosemite NP**



*Pinus contorta* subsp. *murrayana*

Yosemite NP





# Pinus contorta

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- *Pinus contorta* subsp. *contorta* (rood)
- *P. contorta* subsp. *latifolia* (groen)
- *P. contorta* subsp. *murrayana* (blauw)

*Sambucus cerulea* - Yosemite NP



*Sambucus cerulea* - Yosemite NP







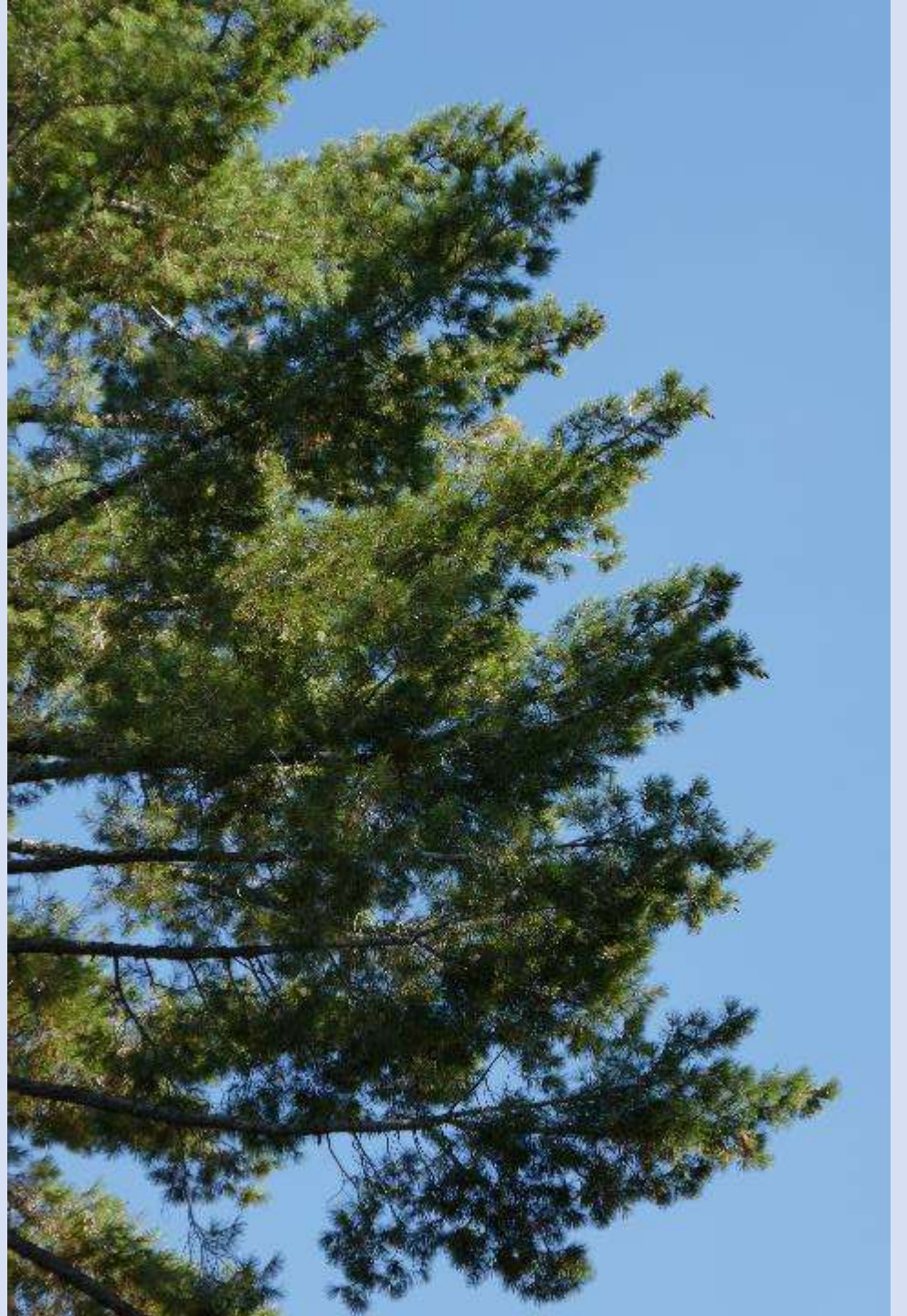




# Cornus nuttallii - Yosemite NP



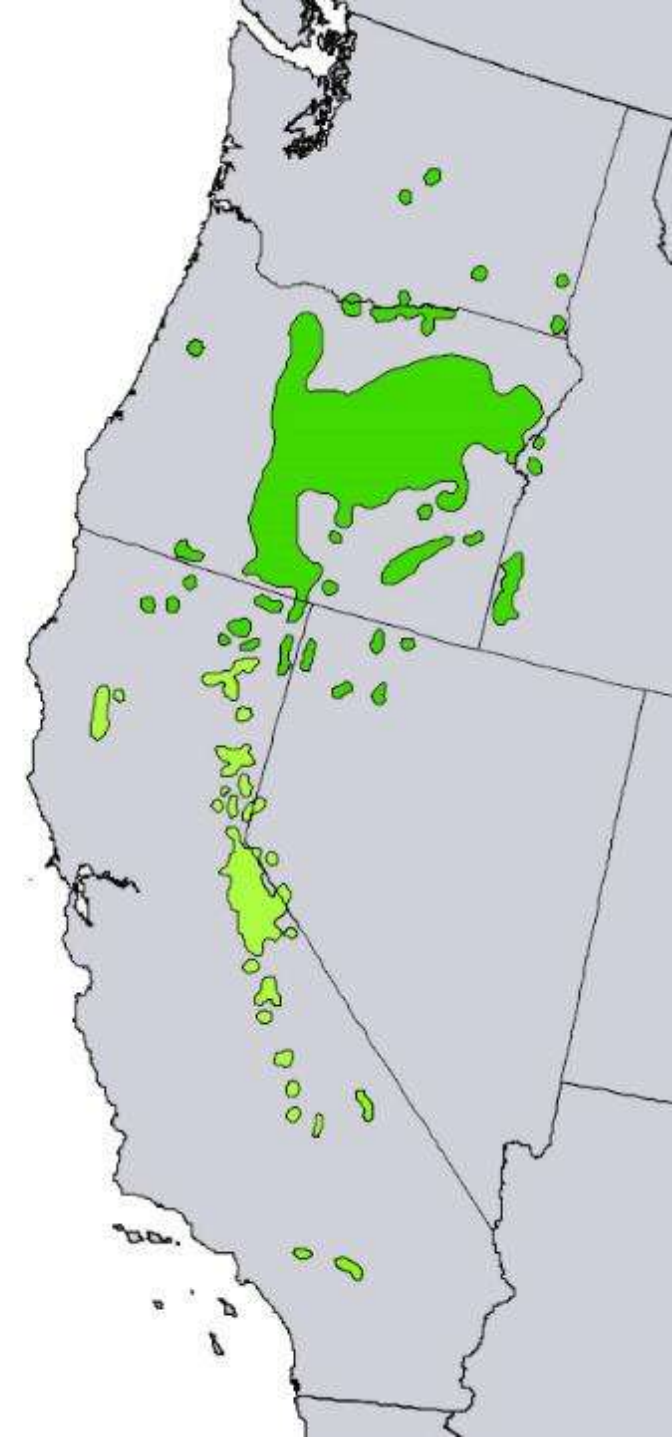
**Pinus lambertiana Yosemite NP**

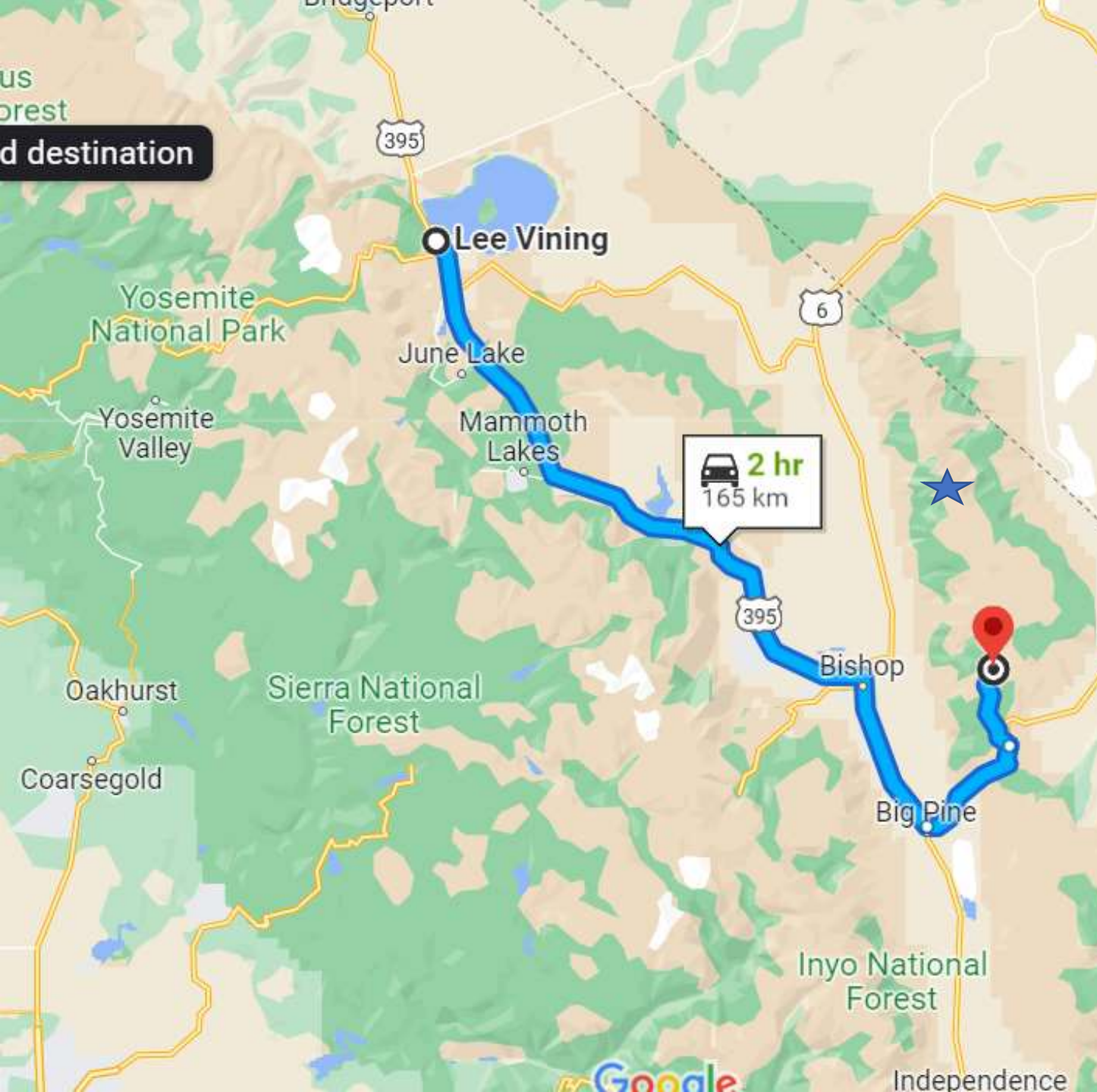




**Pinus jeffreyi lambertiana Yosemite NP**

**Juniperus occidentalis**  
**var. australis**  
**Yosemite NP**





## White Mountains

- Ancient Bristlecone Pine Forest (Methuselah 4854 jaar)
- White Mountains Peak (4.344m)



Pinus monophylla  
White Mountains

# Pinus longaeva - White Mountains



Pinus flexilis –  
White Mountains









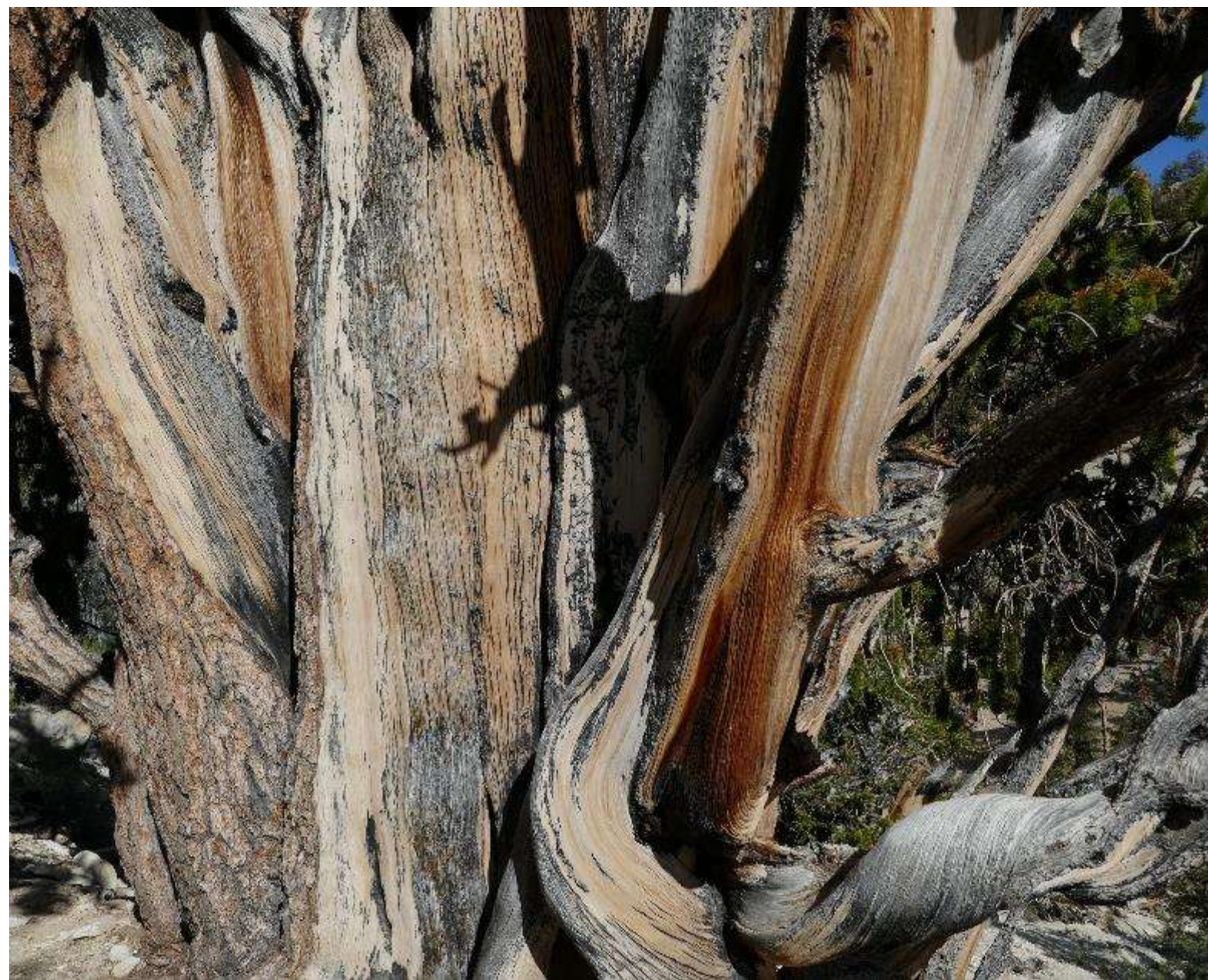
Pinus longaeva White Mountains

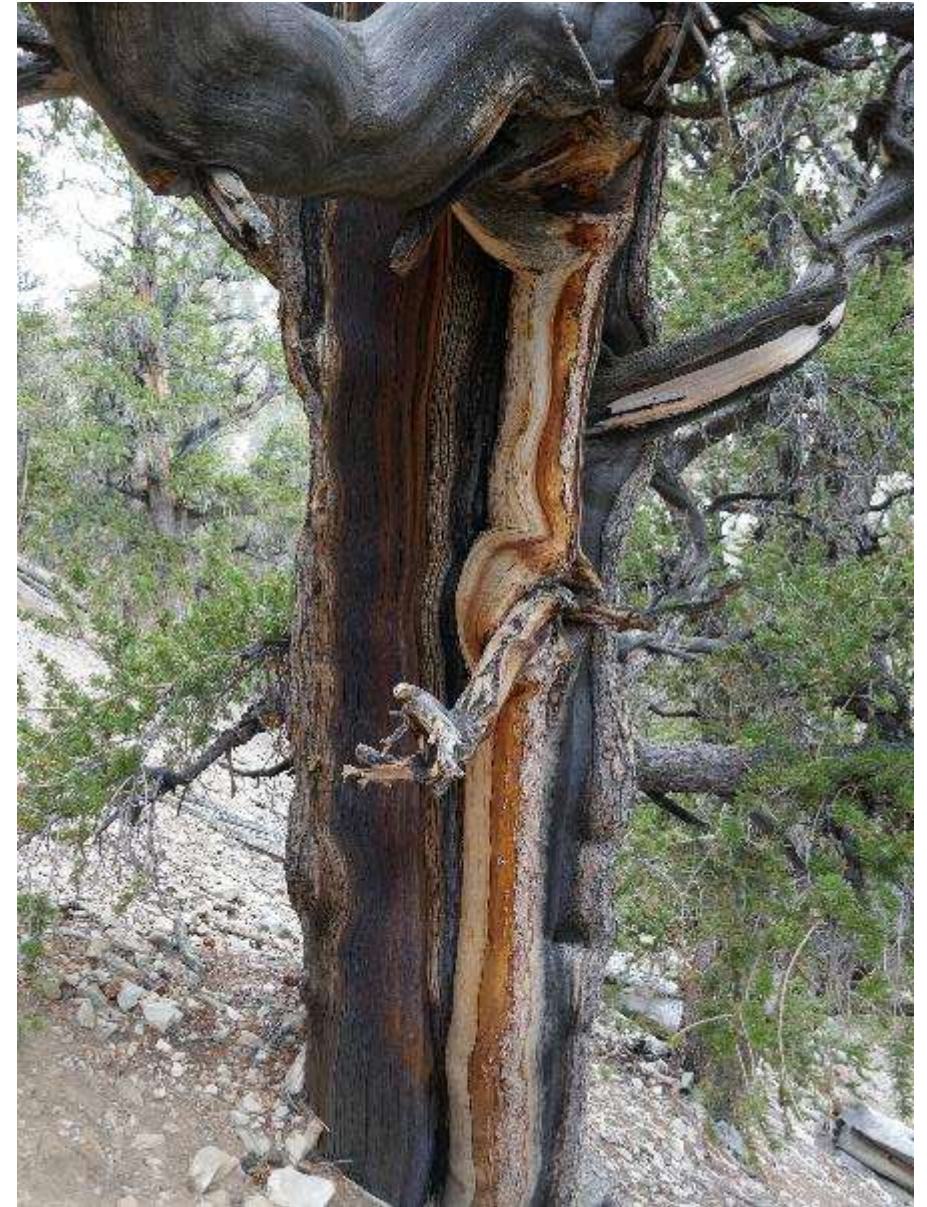


Pinus longaeva  
White  
Mountains



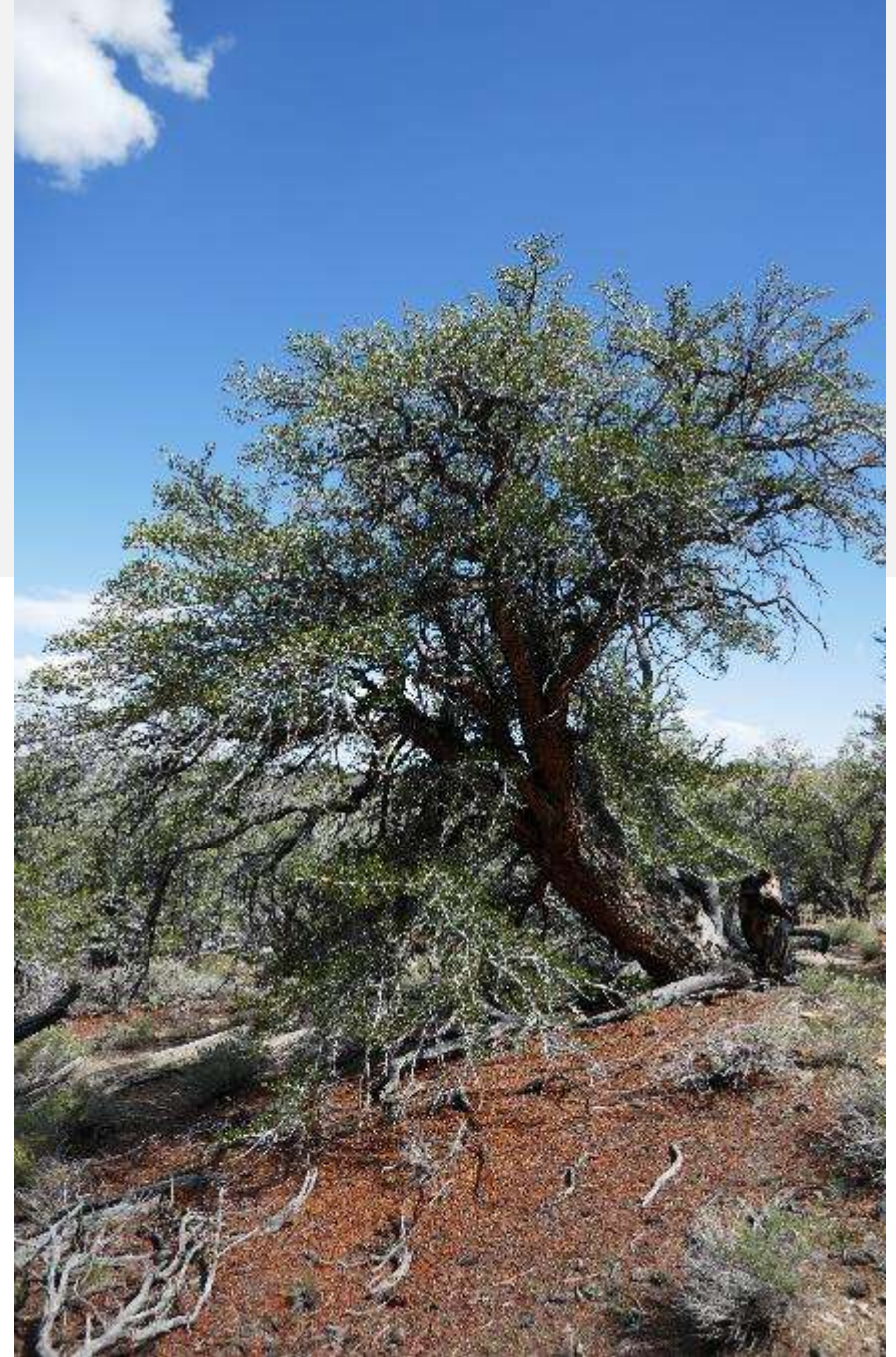
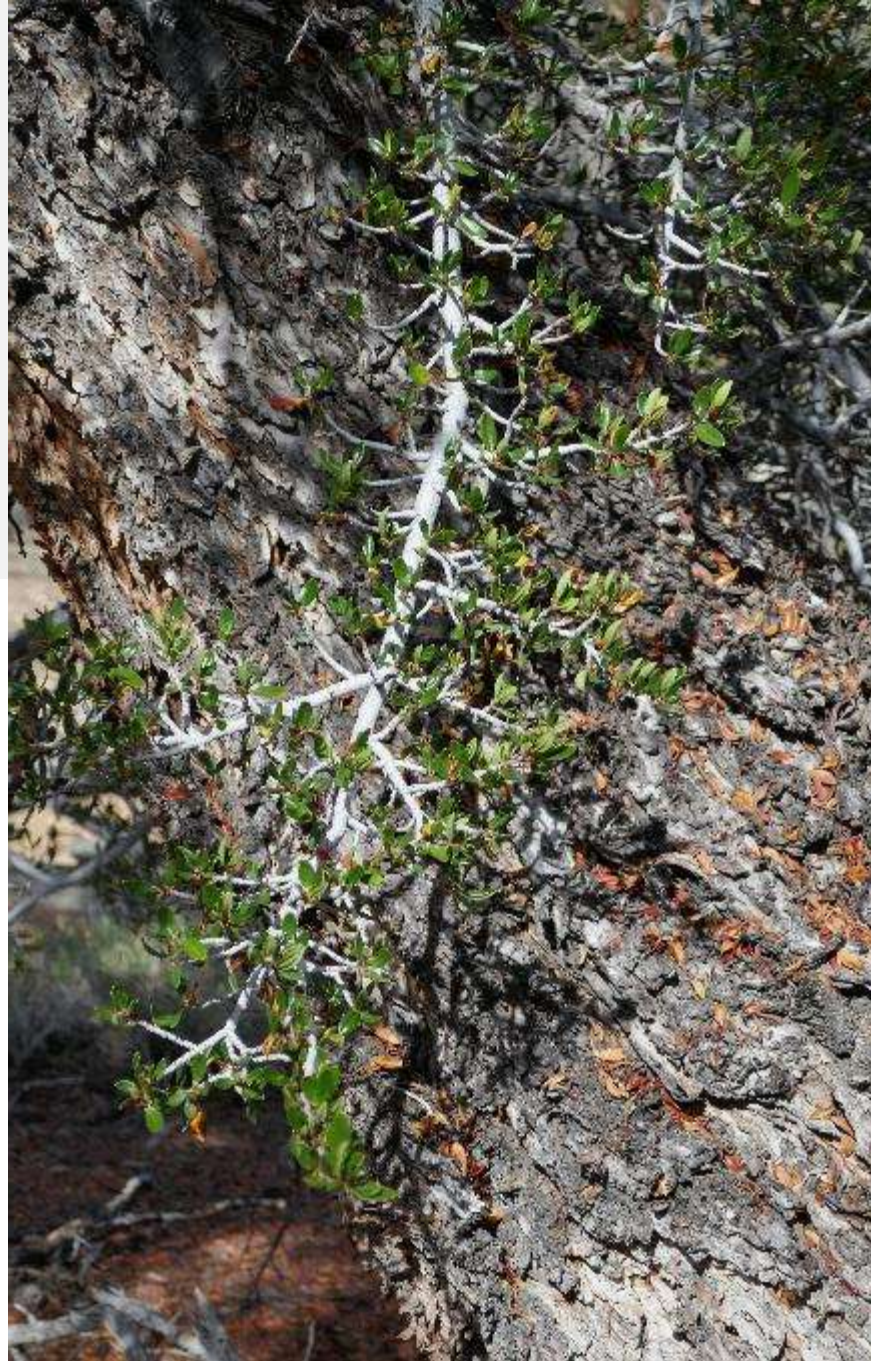
*Pinus longaeva*  
White  
Mountains







Cercocarpus  
ledifolius  
White Mountains



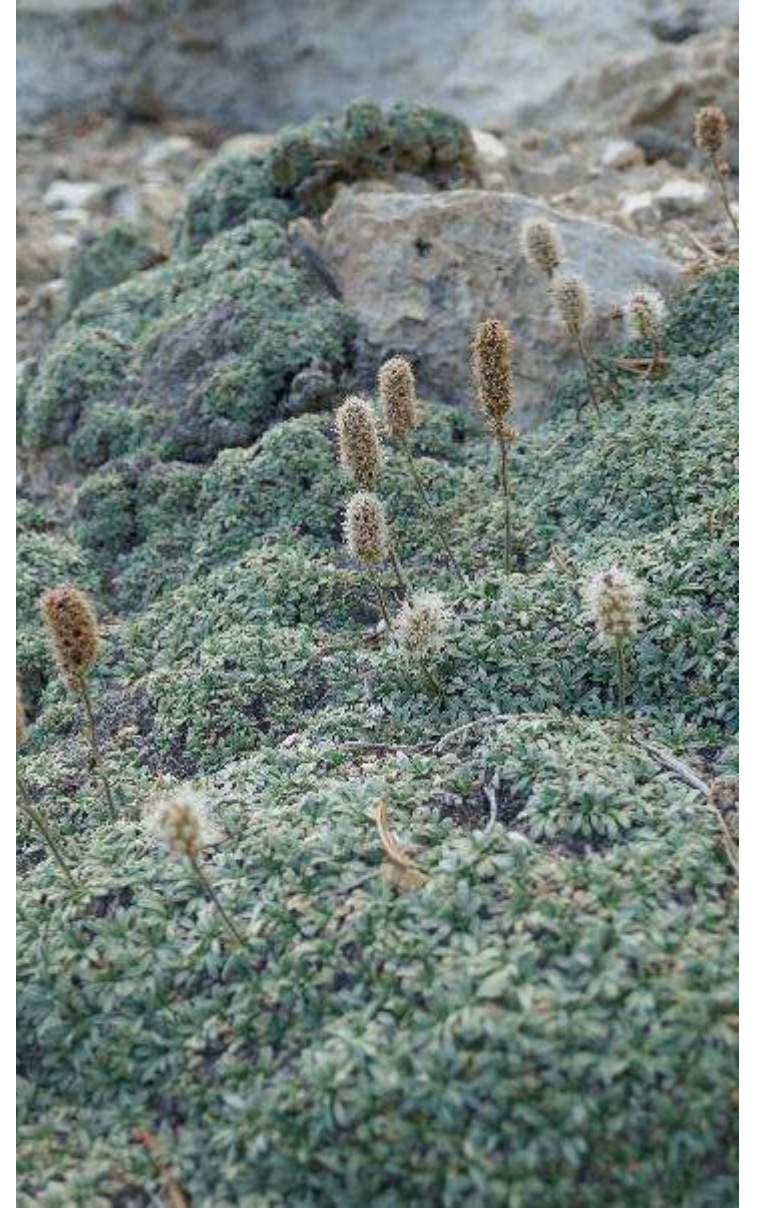
*Ephedra viridis*



*Chamaebatiaria millefolium*



*Pterophytum caespitosum*







*Yucca brevifolia* - Big Pine to Death Valley NP



FURNACE CREEK VICTO

115°F  
46°C



Circle 1230 feet higher is 2 degrees Fahrenheit cooler.  
Circle 277 meters higher is 3 degrees Celsius cooler.



Devil's Golf Course - Death Valley NP

Amerikaanse wintertaling (*Anas carolinensis*)



Devil's Golf Course - Death Valley NP

Artist's Palette - Death Valley NP

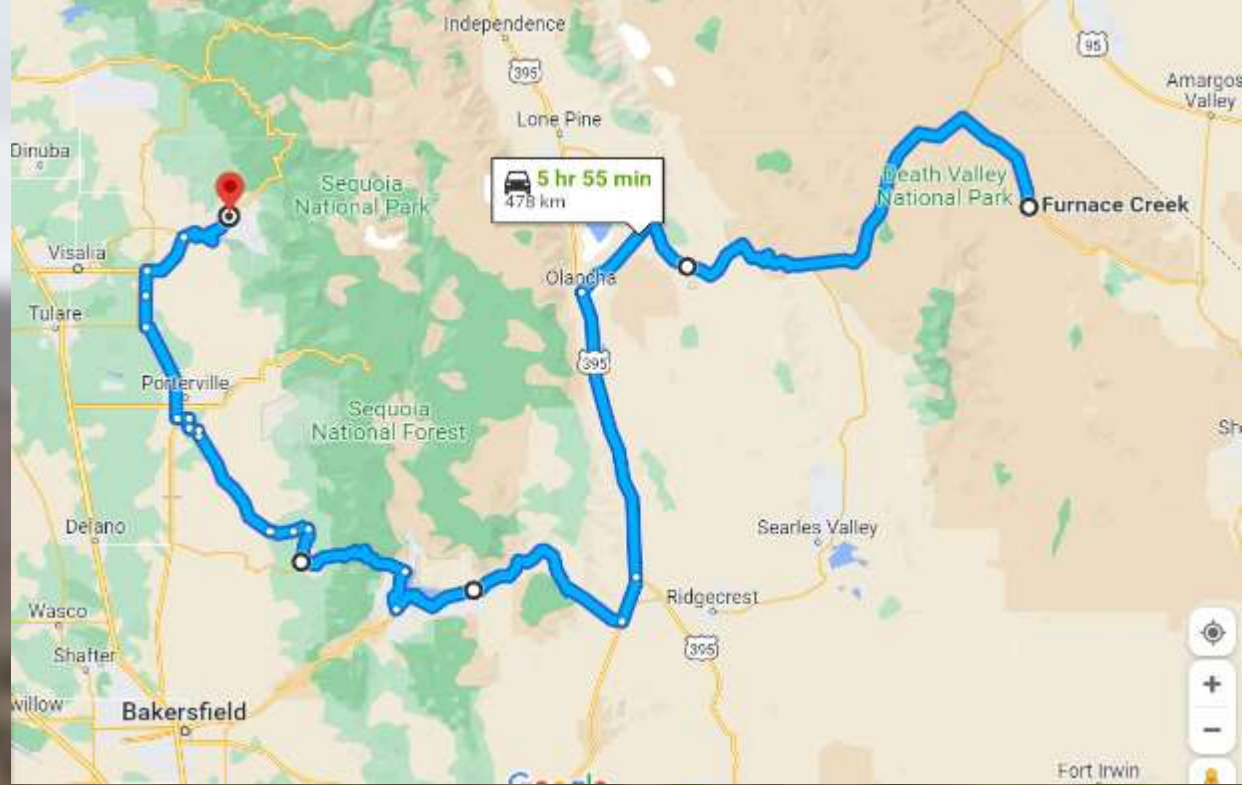


Artist's Palette - Death Valley NP









# Pinus sabiniana - Isabella Lake

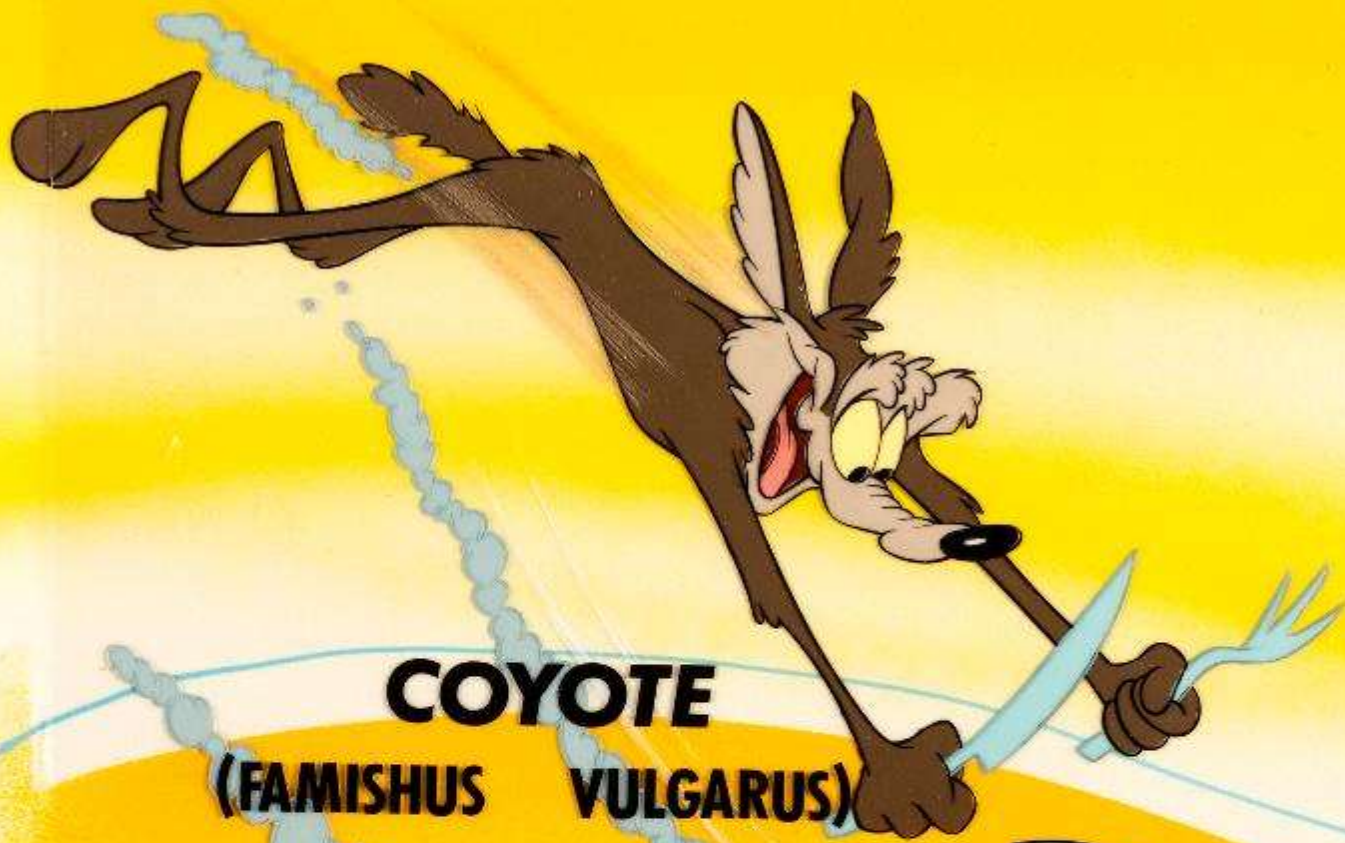




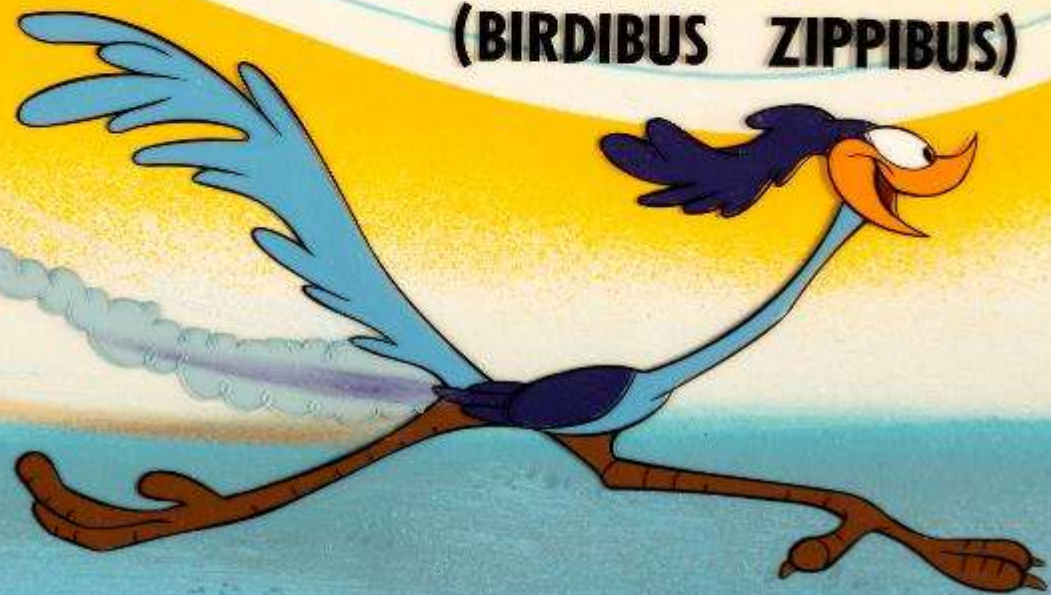


**Platanus racemosa (Isabella Lake -> Three Rivers)**





**COYOTE**  
(FAMISHUS VULGARUS)



**ROAD-RUNNER**  
(BIRDIBUS ZIPPIBUS)



Pistache  
(*Pistacia vera*)  
near  
Porterville









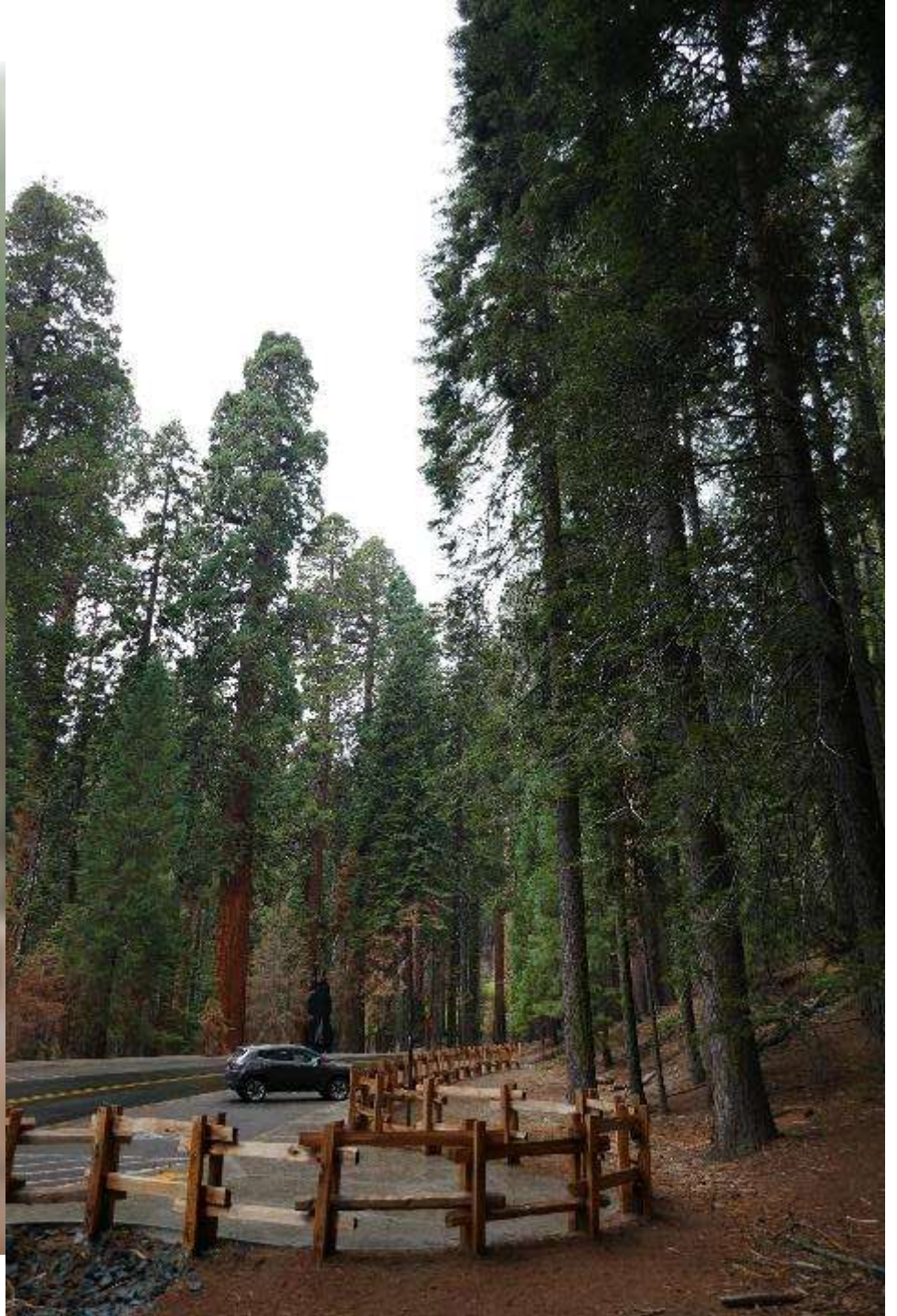
















Abies magnifica near Kings Canyon overlook











*Aesculus californica* near Sequoia and Kings Canyon NP



Platanus racemosa - Three Rivers



**Venice Beach L.A.**



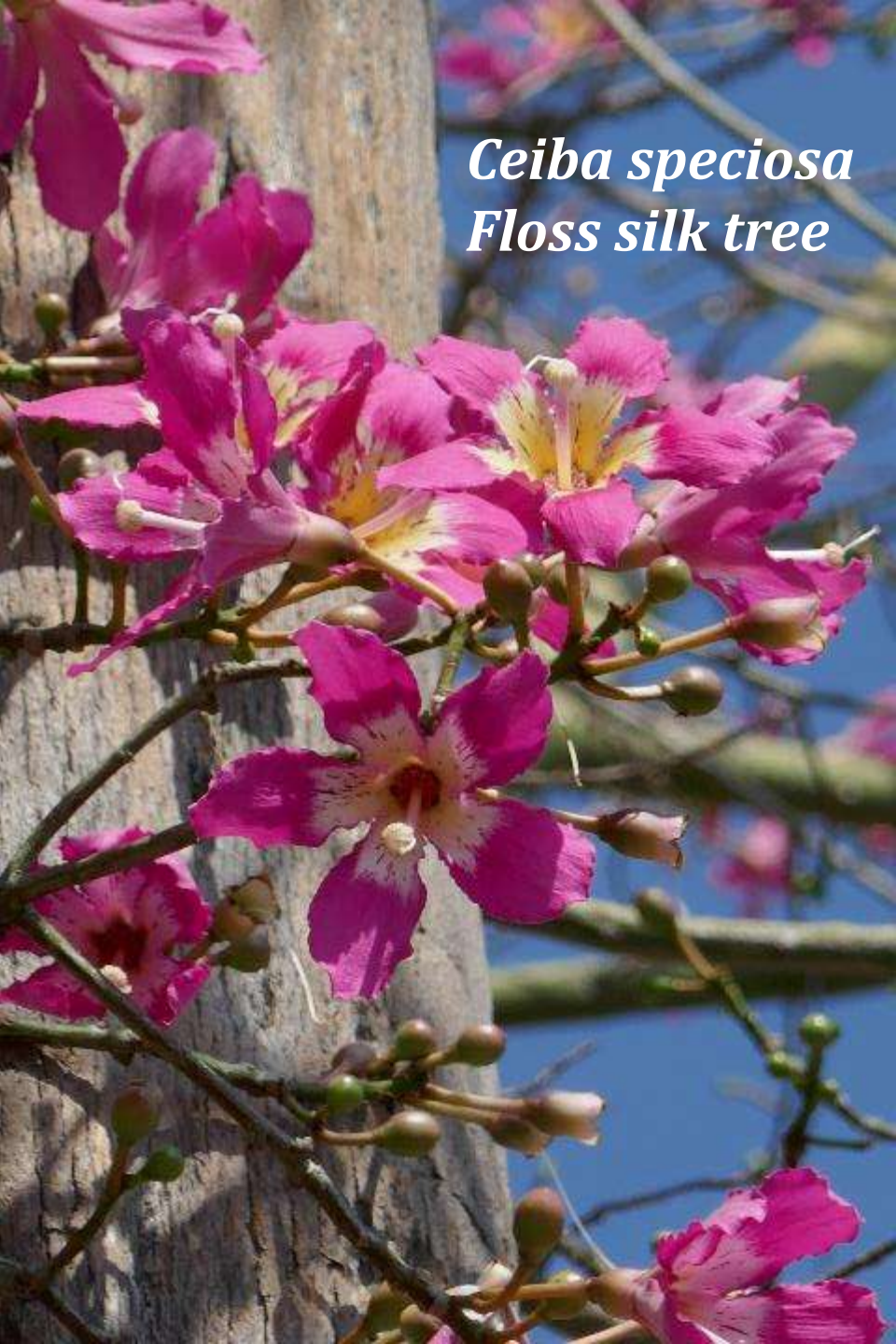


Koningsstern  
(*Thalasseus maximus*)

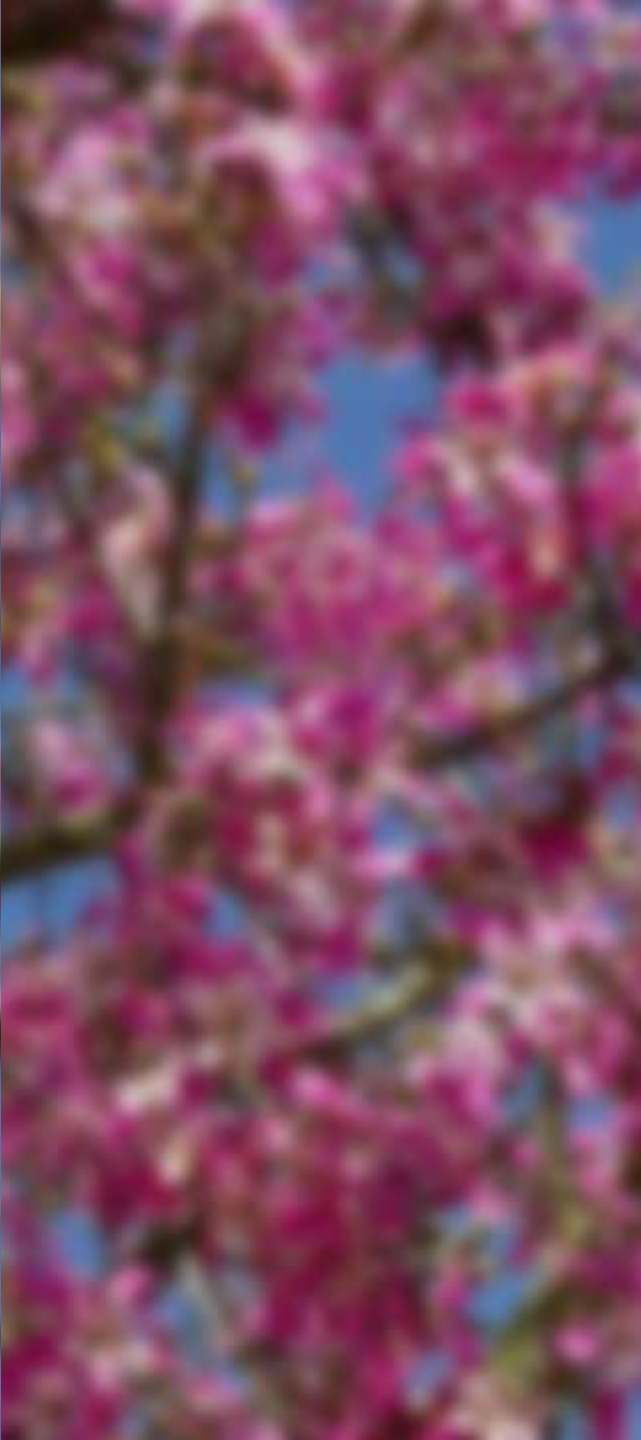
Reuzenkelp  
(*Macrocystis pyrifera*)



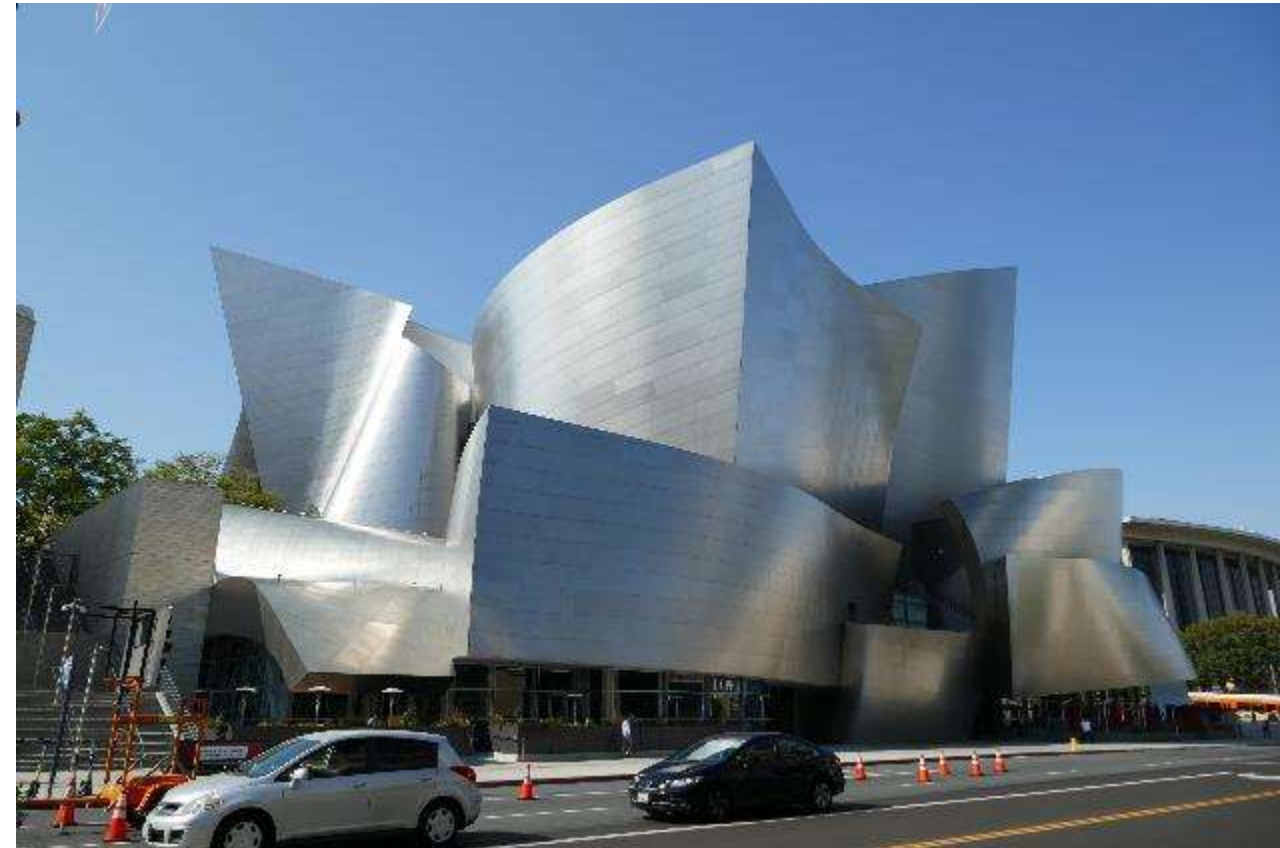
*Ceiba speciosa*  
Floss silk tree



*Ceiba speciosa*  
Floss silk tree



# Walt Disney Concert Hall Frank Gehry





**Washingtonia robusta**