

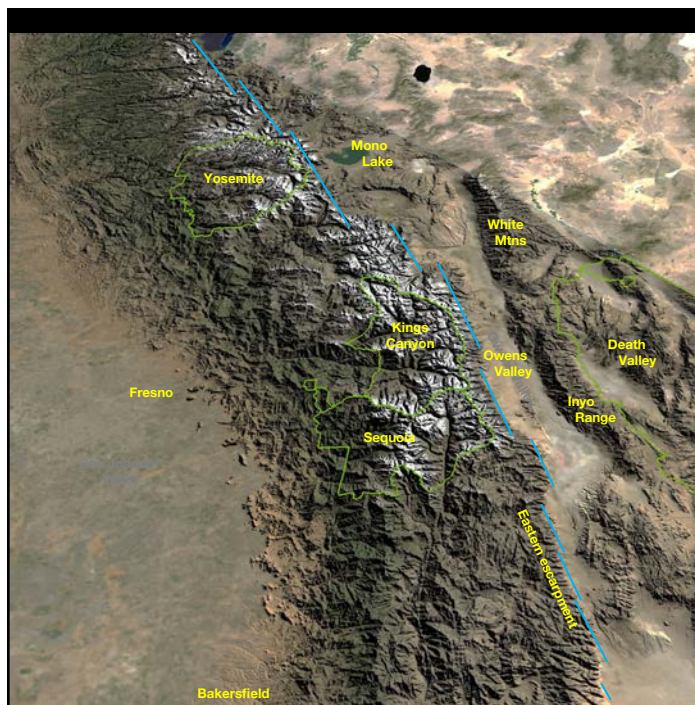


### Sequoia / Kings Canyon NPs

- mostly granitic rock of the Sierran batholith, sculpted by glacial erosion (“Range of Light”)
- arctic/alpine habitat above treeline

Notes/images 5C in Files, Ch. 19 & p.22-23 in book

1



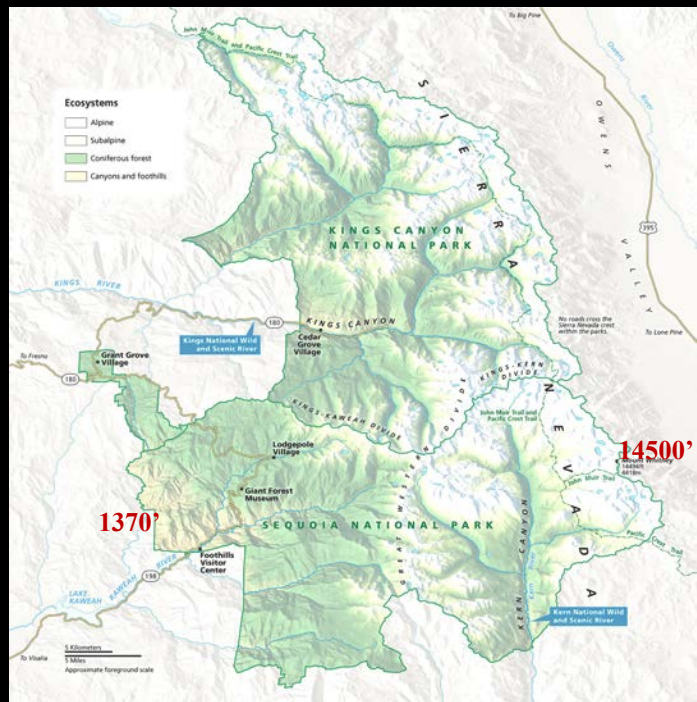
Sequoia-Kings  
Canyon  
share many  
similarities  
w/ Yosemite

- high elevations
- deep canyons
- granitic rocks
- glaciated terrain

2

## Kings Canyon - Sequoia NPs

- roads reach eastward to ~7800'
- John Muir & Pacific Crest trails



3



General Grant  
giant sequoia

81 groves  
between  
4000-8000'  
elevation

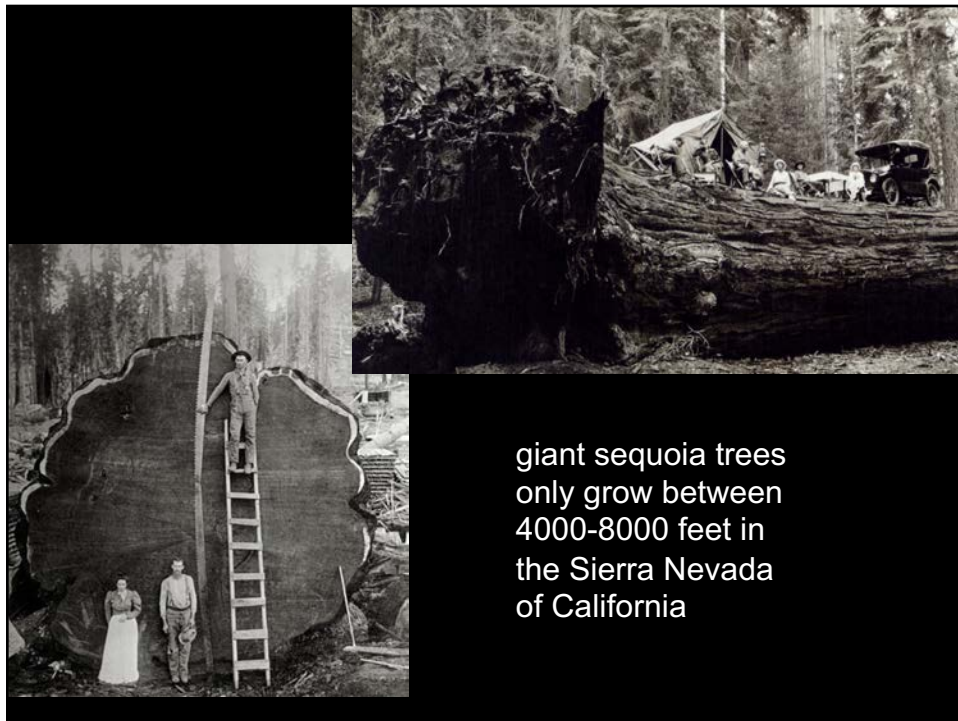
General Sherman

- Earth's largest living tree (2200 yrs old)



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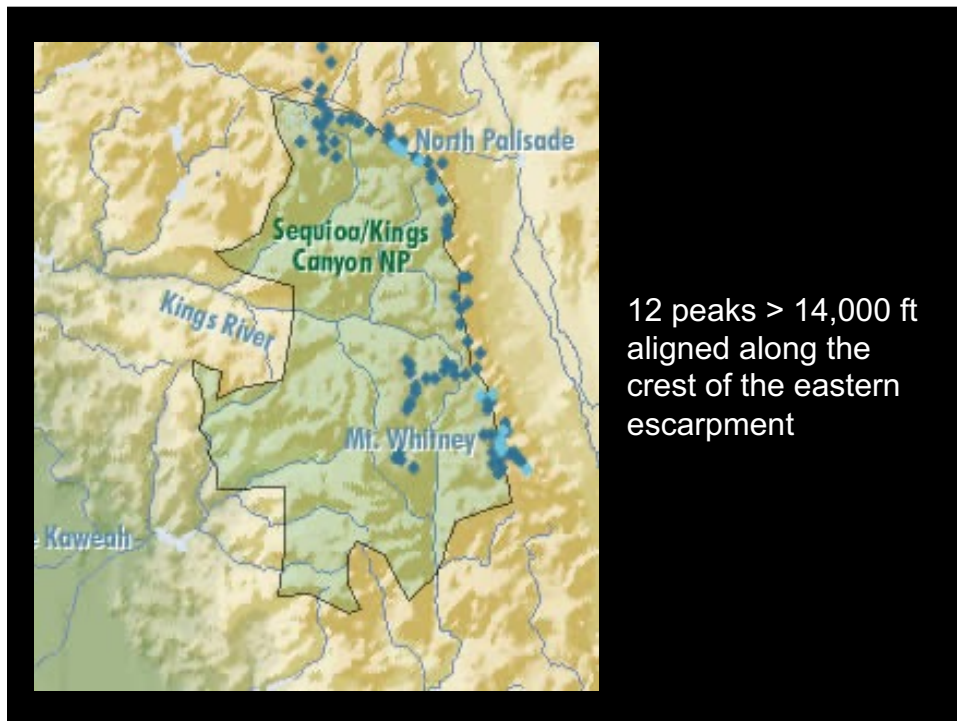




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Tehipite Dome (T) rises 3600' above the U-shaped glacially modified valley of the Middle Fork of the Kings River, Kings Canyon NP.

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**Palisade Glacier** – note debris along the sides, left behind as the glacier retreats due to melting  
- southernmost glacier in North America (0.3 mi<sup>2</sup>)

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### Rocks of Sequoia-Kings Canyon



Mount Whitney – granite of the Sierran batholith  
- angularity and steepness of the “needles”  
relate to the intersection of two planar joint sets

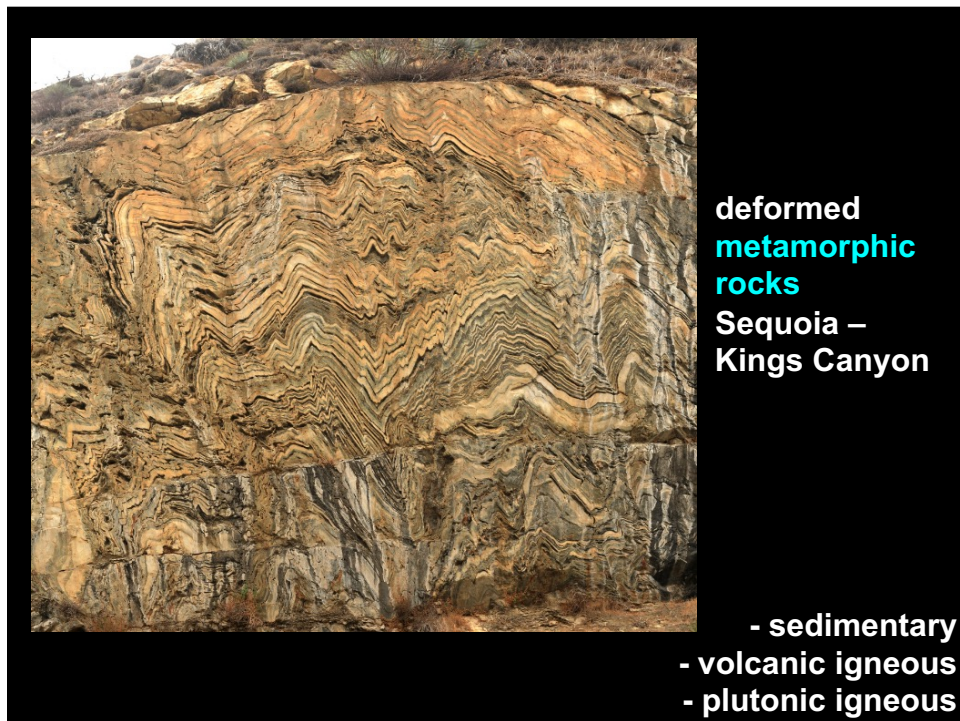
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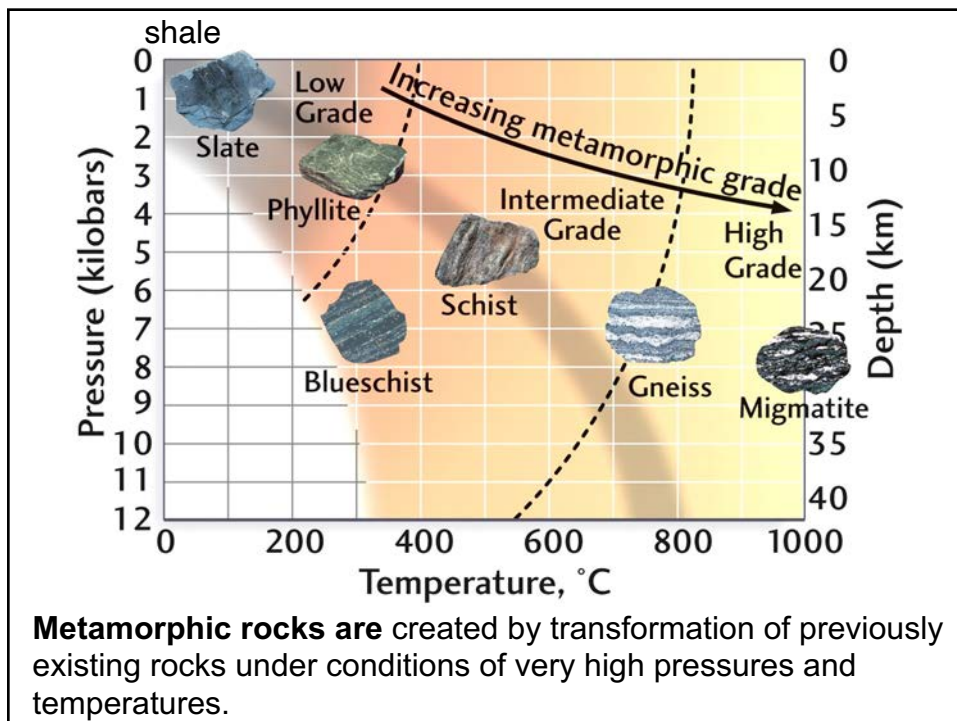
Moro Rock, a dome  
formed by exfoliation of  
granitic rock of the  
Sierran batholith  
(Sequoia NP).



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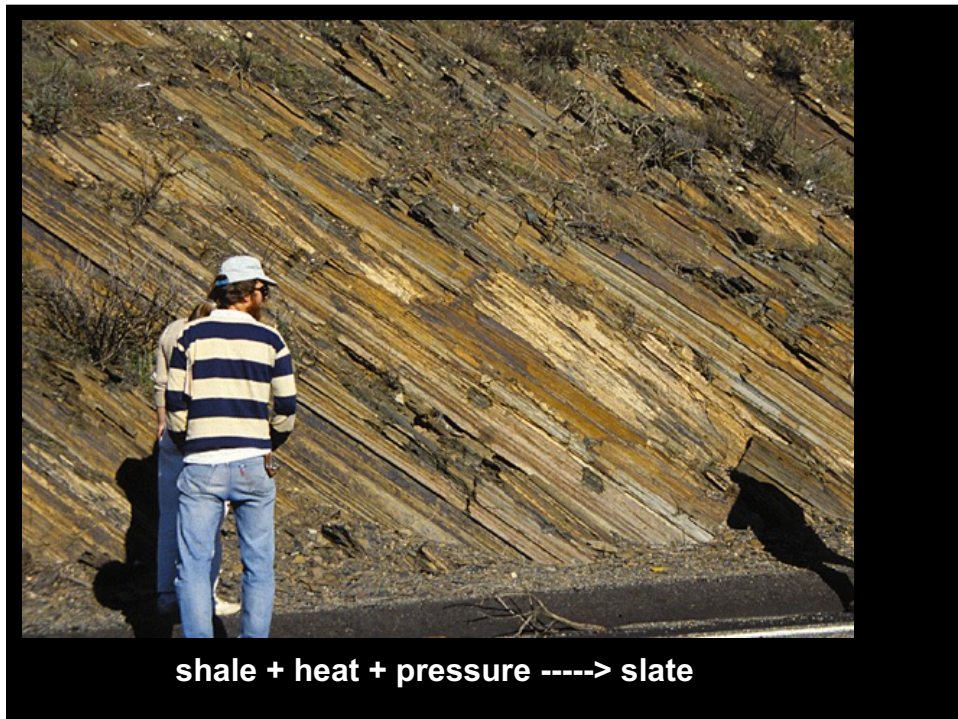


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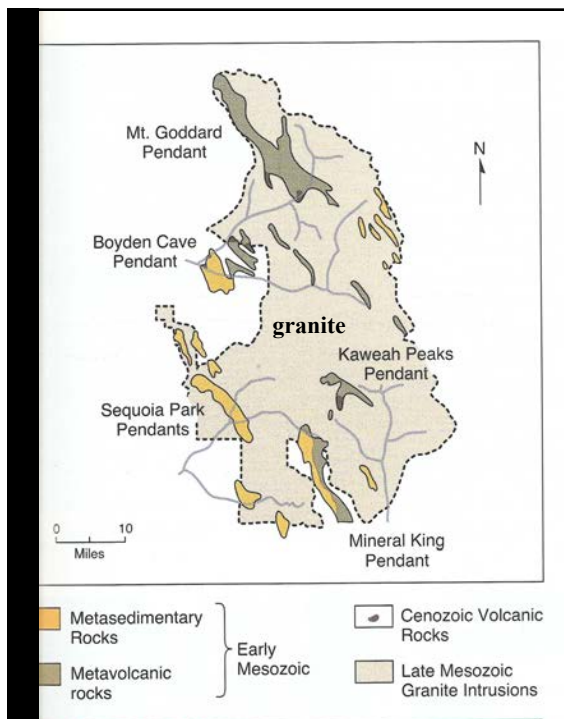
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**folded gneiss – plastic deformation**

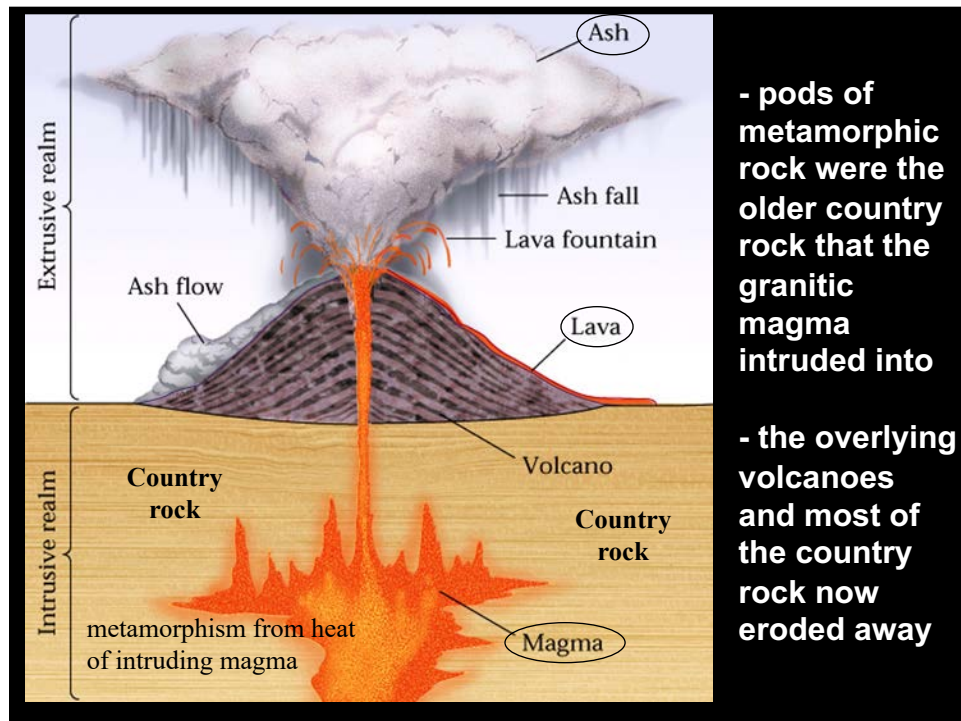
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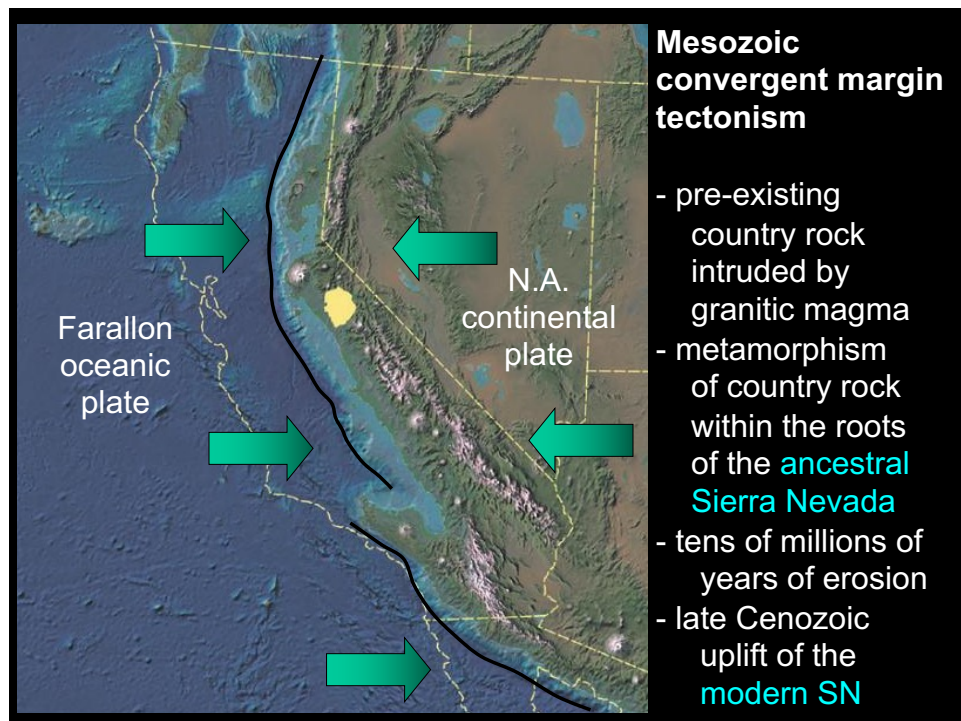
**Simplified geologic map of Sequoia – Kings Canyon national parks**

- terrain mostly composed of granitic rocks of the Sierra batholith
- remnant masses of metamorphosed country rock are surrounded and underlain by granitic plutons
- most metamorphic country rock removed by erosion

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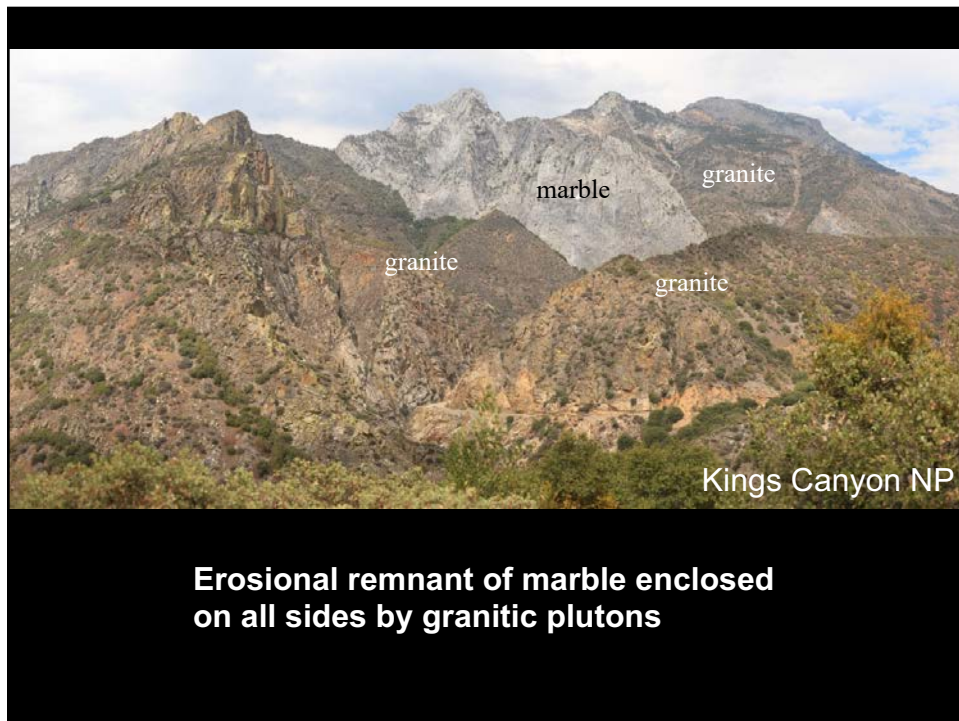


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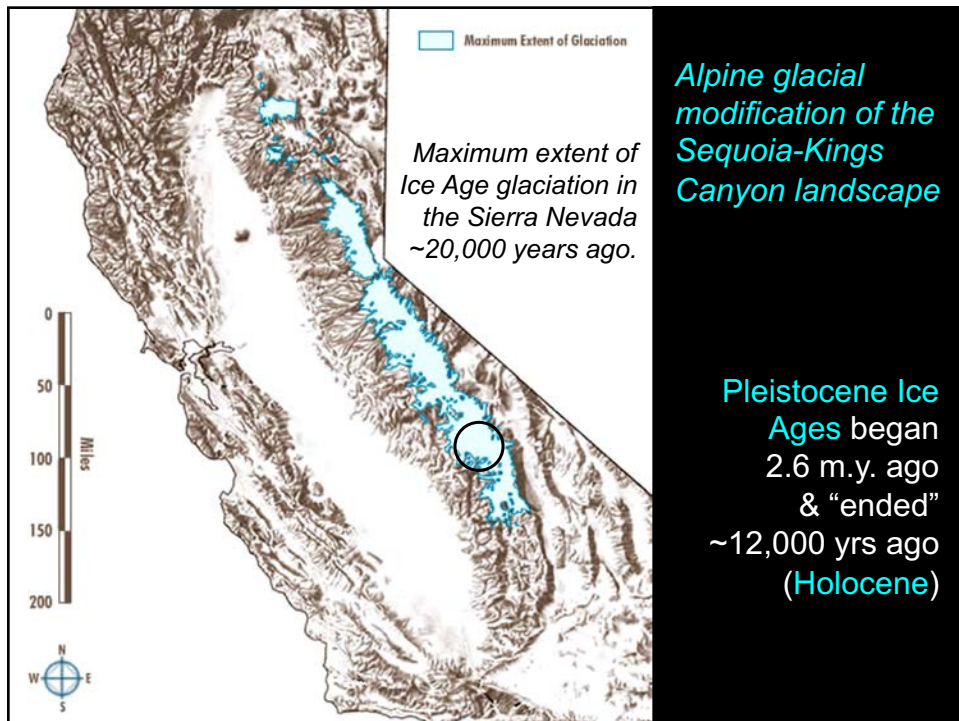


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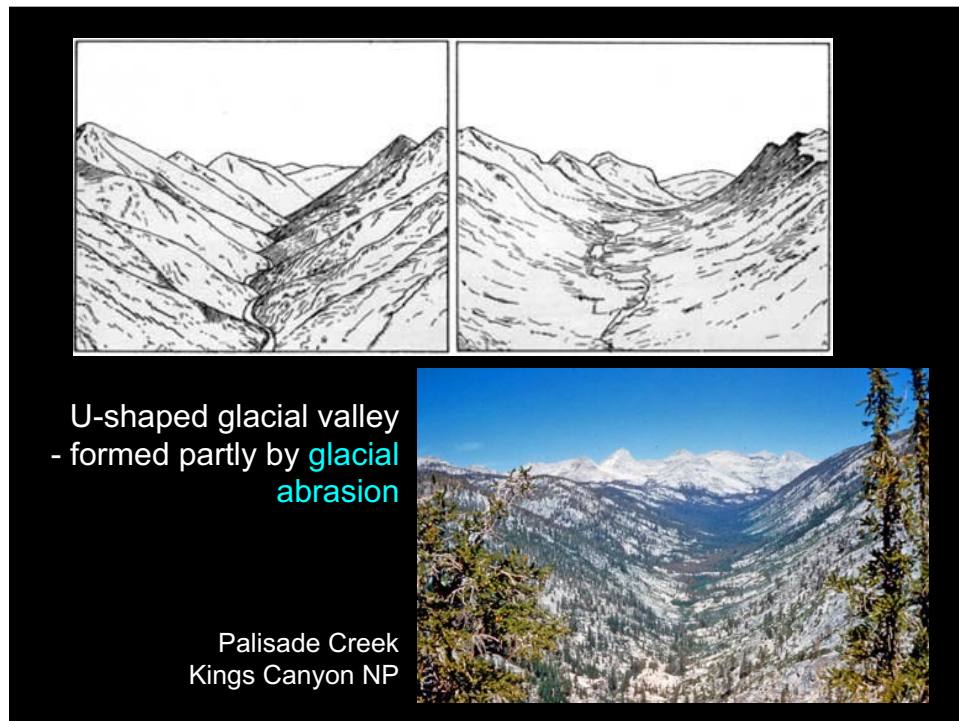
**Crystal Cave - formed in a pod of marble in Sequoia NP  
(one of ~200 caves in Seq-KC)**

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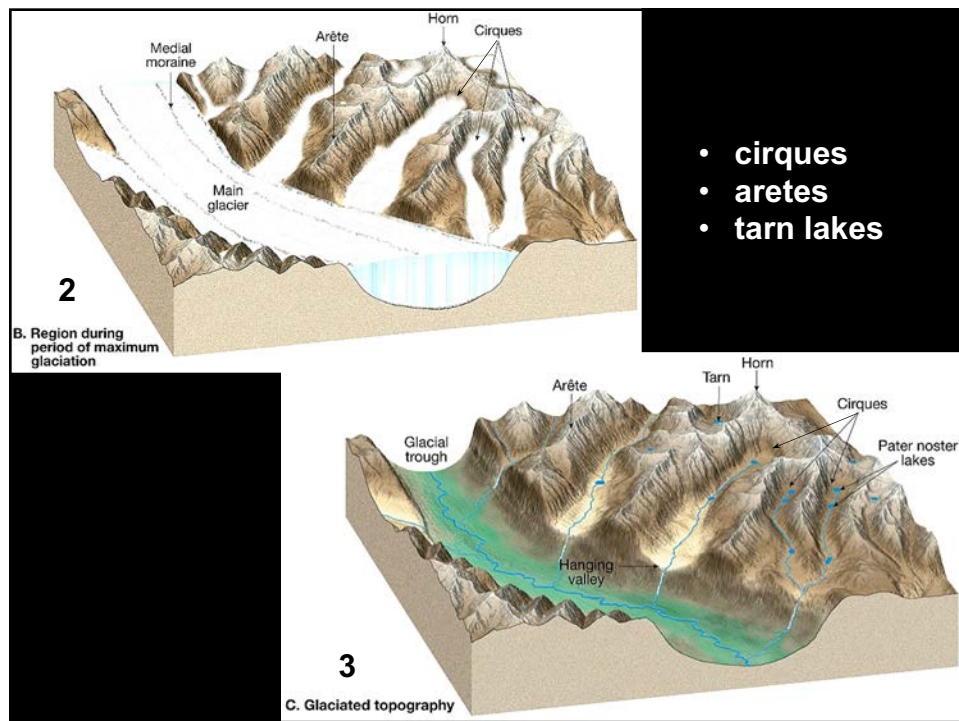


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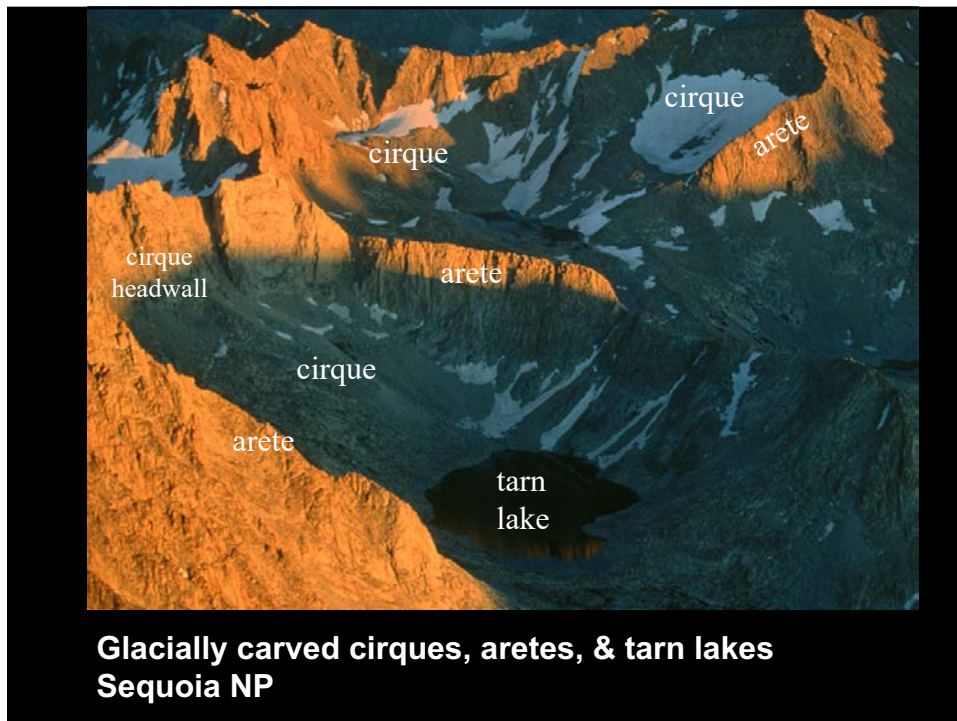




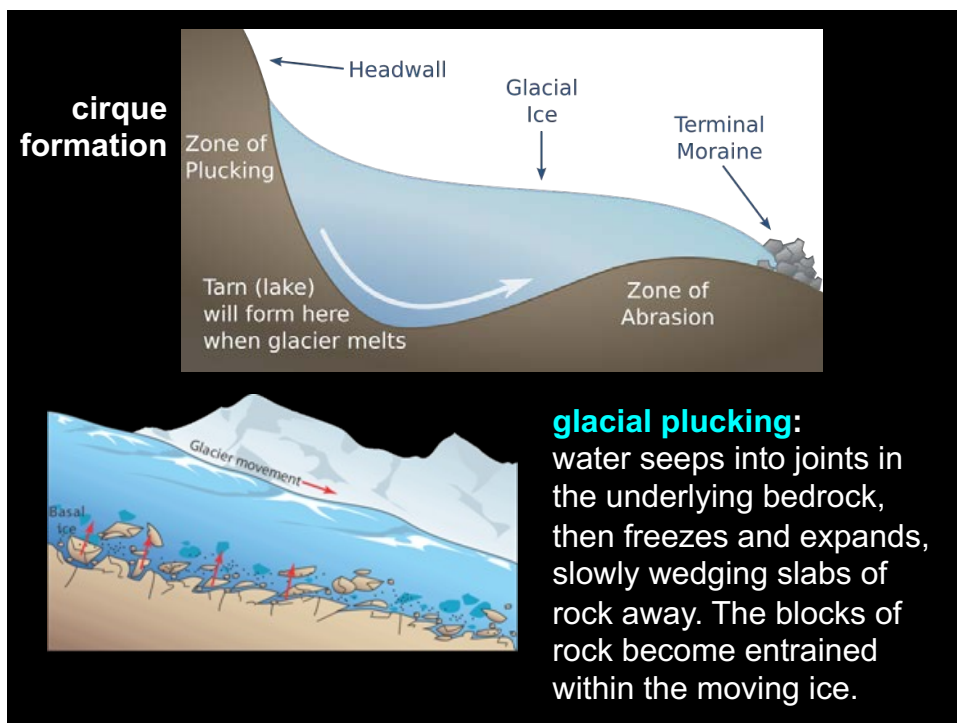
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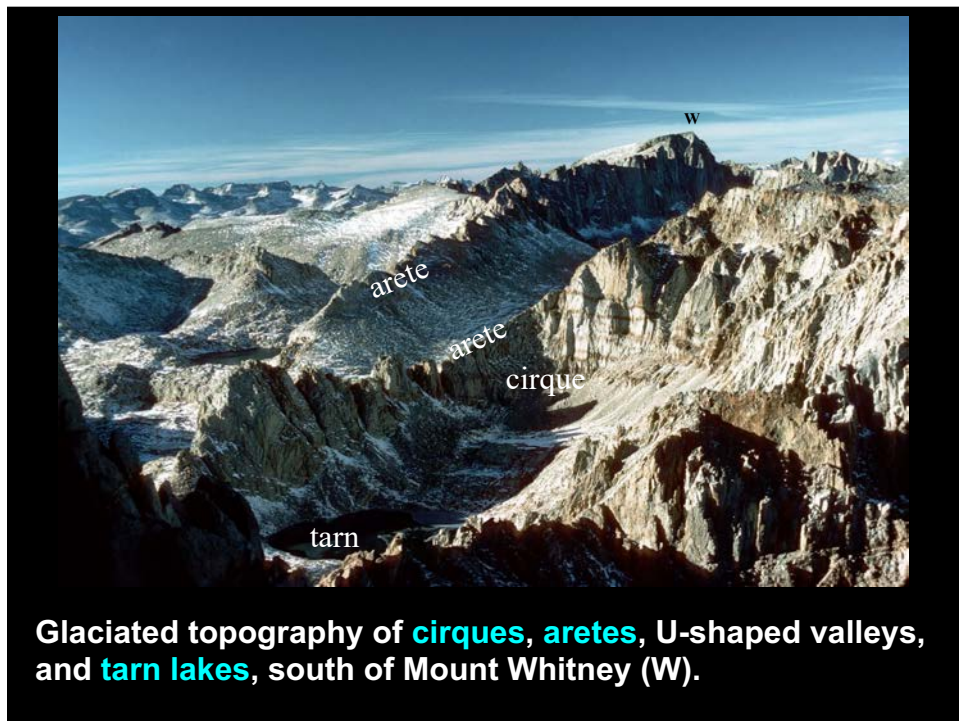


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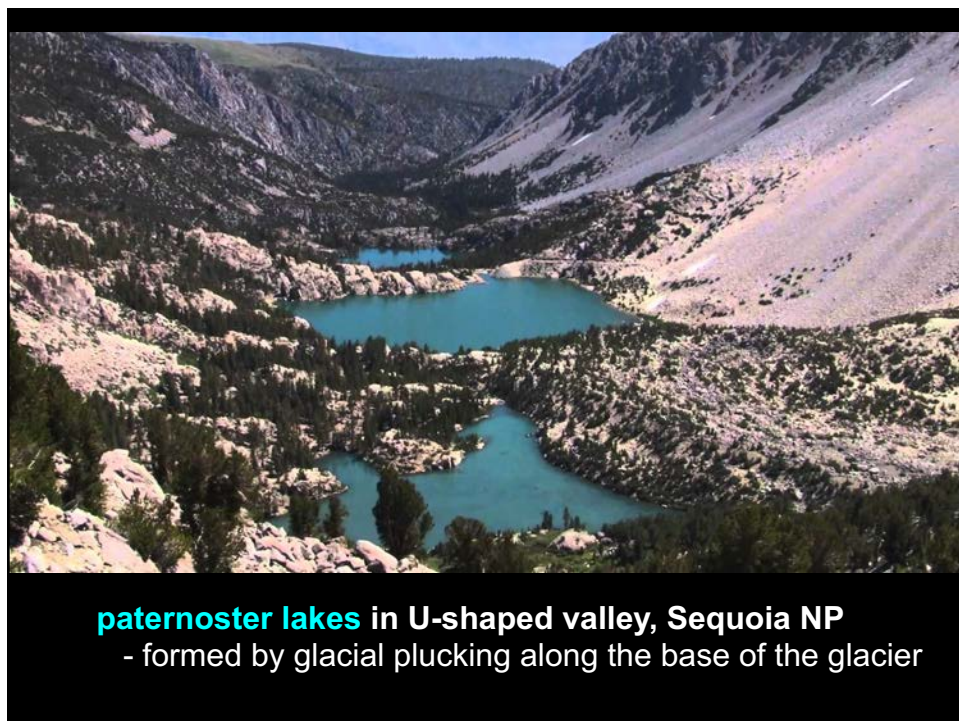


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tarn lake in Dusy Basin, Kings Canyon NP

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Ranger Meadow, Kings Canyon NP

flat-floored meadows commonly form as  
sediment eventually fills in tarn lakes

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