

A Very Brief Paleo Vegetation History

Northwest California

Carl N. Skinner

Geographer (Emeritus PSW)

Collaborators



Cathy Whitlock Montana State Univ. Bozeman, MT

Christy Briles
University of Colorado
Denver, CO



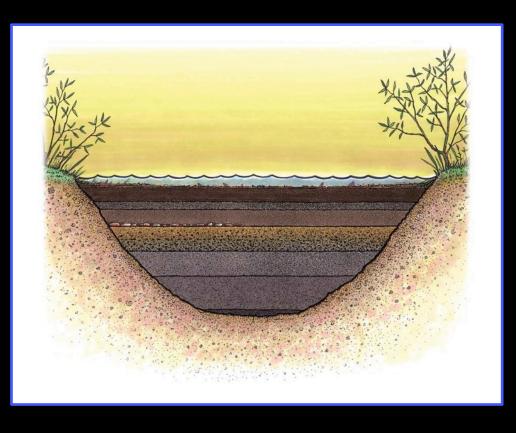


Piecing Together a Picture of Vegetation History

- Sediment Cores > 10,000s yrs
 Pollen, Charcoal, Fossils
- Tree-rings ~ 100s to 1,000s Ring width, Ring density, Isotopes, Fire scars
- Written Records ~ 150 yrs



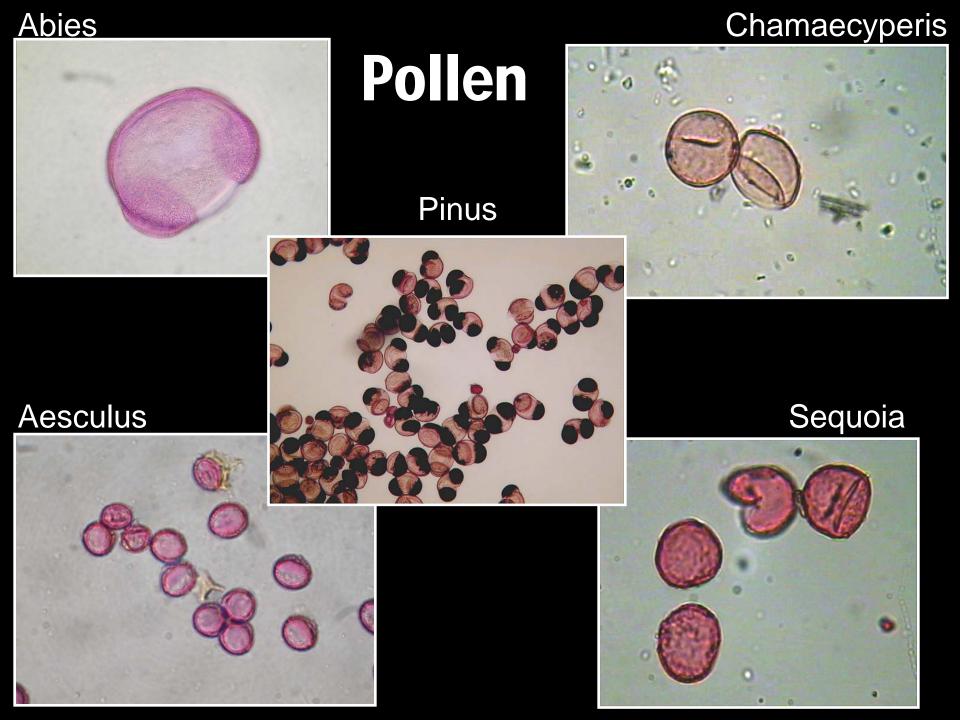
Stratigraphy











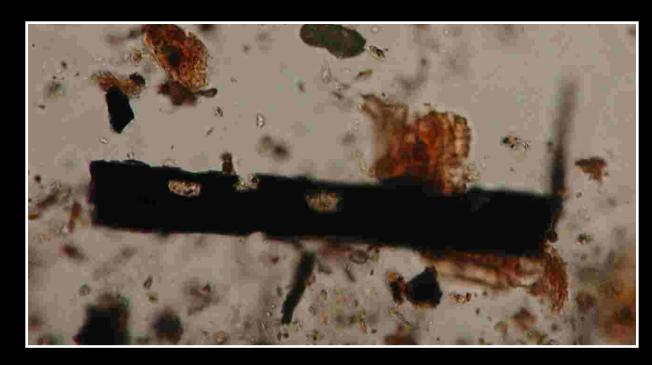


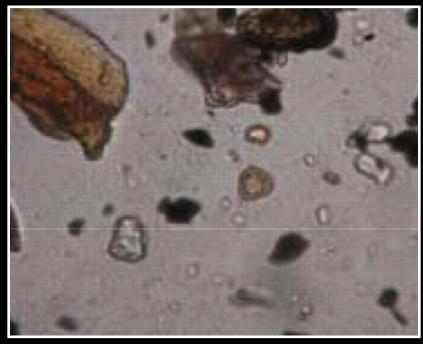




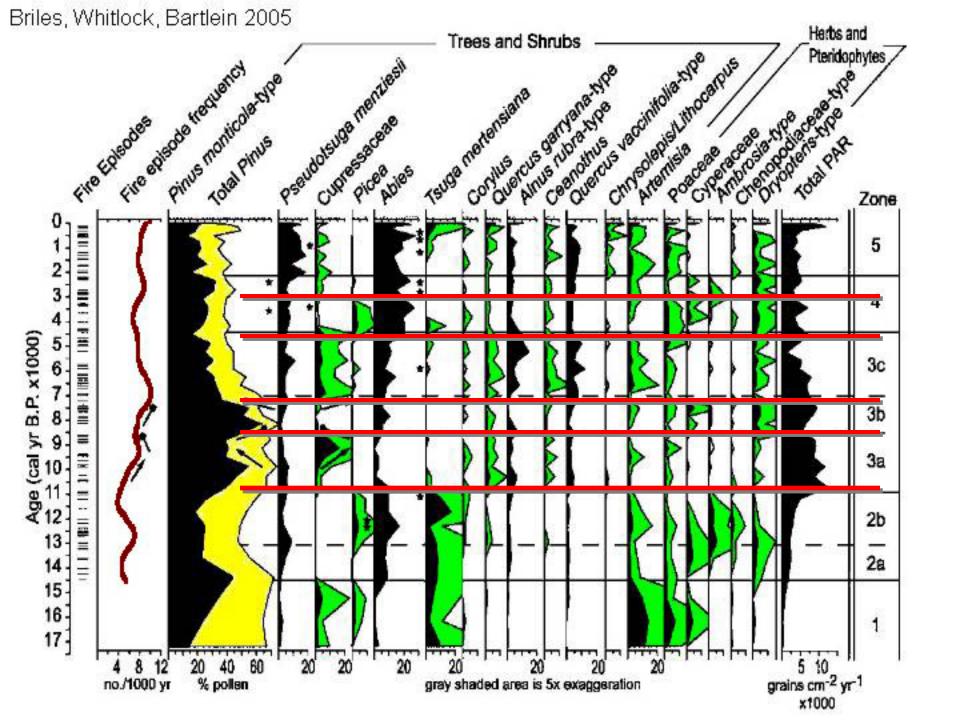


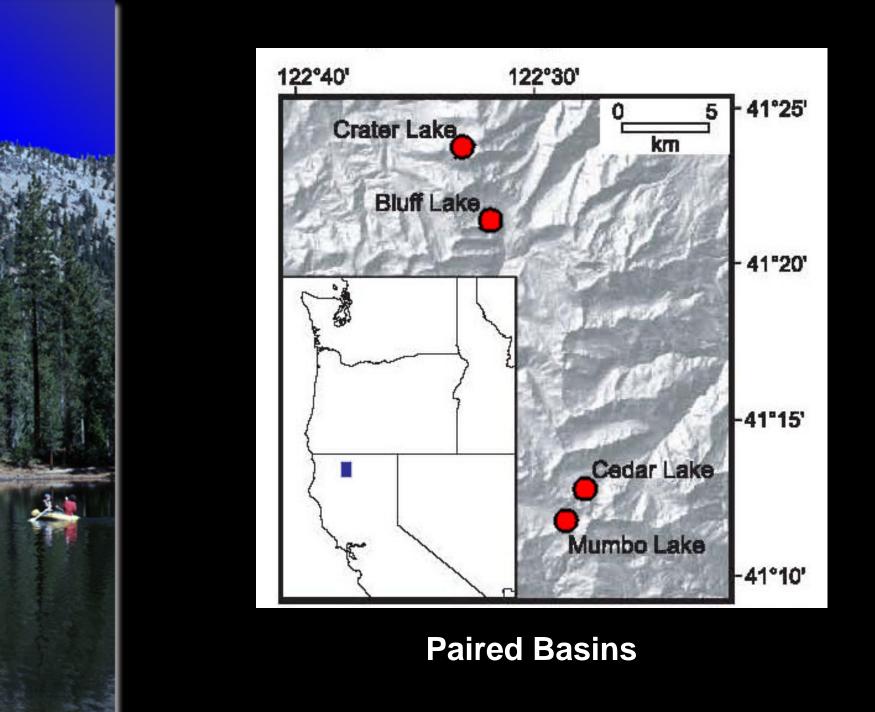
Charcoal









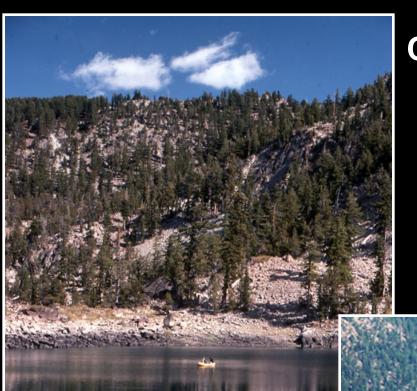




Cedar Lake

Mumbo Lake

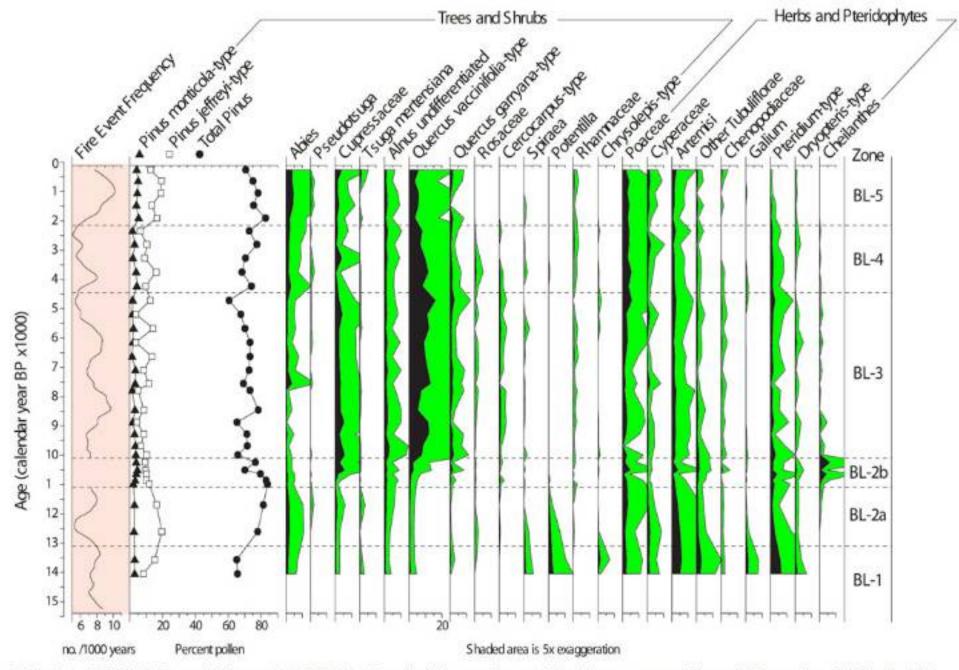




Crater Lake

Bluff Lake





Mohr, J.A., Whitlock, C., and Skinner, C.N. (2000). Postglacial vegetation and fire history, eastern Klamath Mountains, California, USA. The Holocene 10(4): 587-601.



>14,000 ybp



>14,000 ybp



12,000 ybp



>14,000 ybp



12,000 ybp



10,000 - 7,500 ybp



>14,000 ybp



12,000 ybp



10,000 - 7,500 ybp



7,500 - 4,500 ybp



>14,000 ybp



12,000 ybp



10,000 - 7,500 ybp



7,500 - 4,500 ybp



2,150 - 1,000 ybp



>14,000 ybp



12,000 ybp



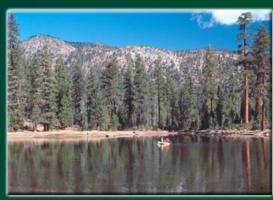
10,000 - 7,500 ybp



7,500 - 4,500 ybp



2,150 - 1,000 ybp



1,000 ybp - present

Bluff Lake - Klamath Mts.

Mohr et al. 2000 Holocene 10(4):587-601



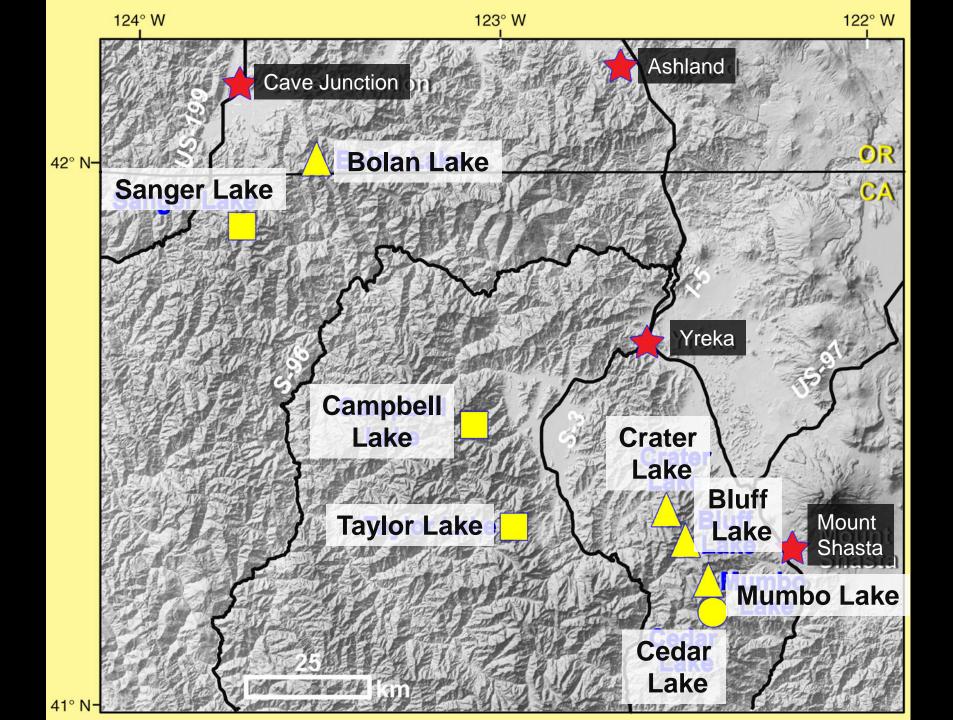
Climate and Vegetation Are Always Changing

Just sometimes faster than other times



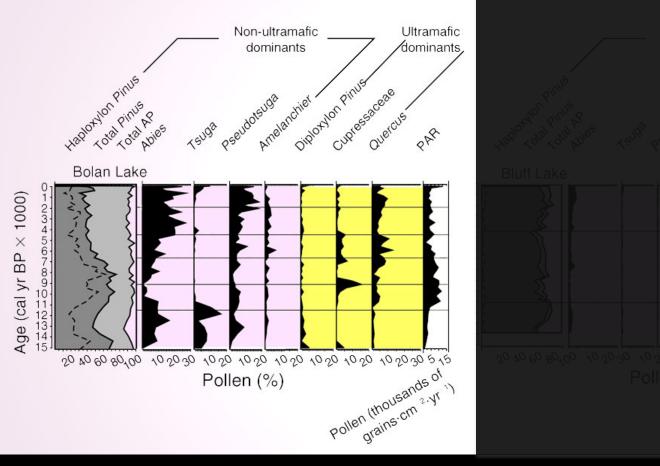
Basins Did Not Have The Same Long-term Trends

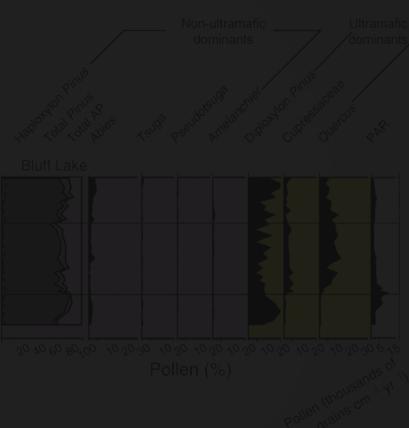
Some were quite stable in terms of species composition – others not.

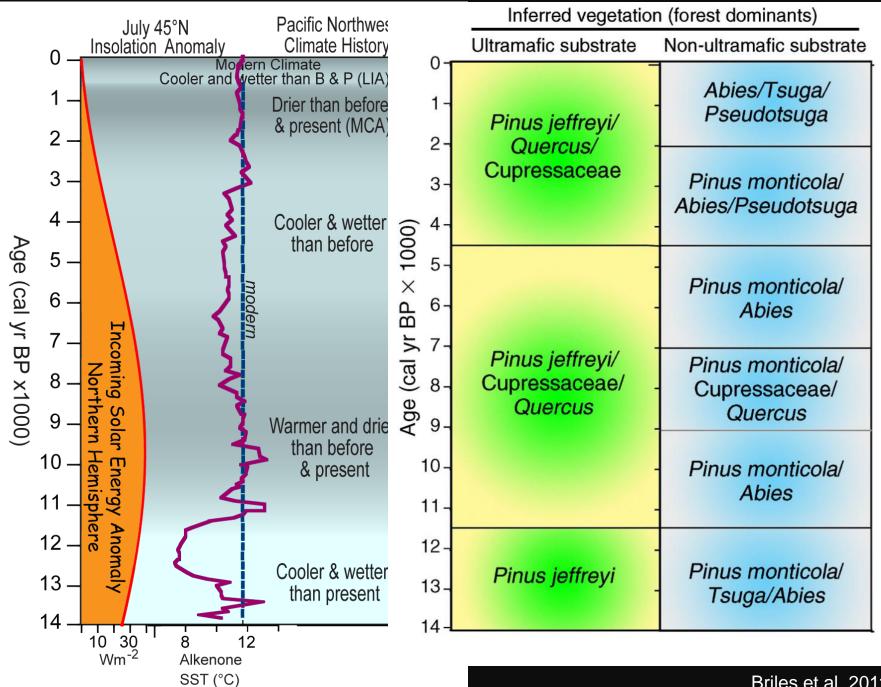


Non-Ultramafic

Ultramafic









Long-term Stability

Ultramafic sites appear to be more stable.



What Next?

Extend work into
North Coast Range, Cascades &
northern Sierra Nevada

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Focus On Last 4000 yrs



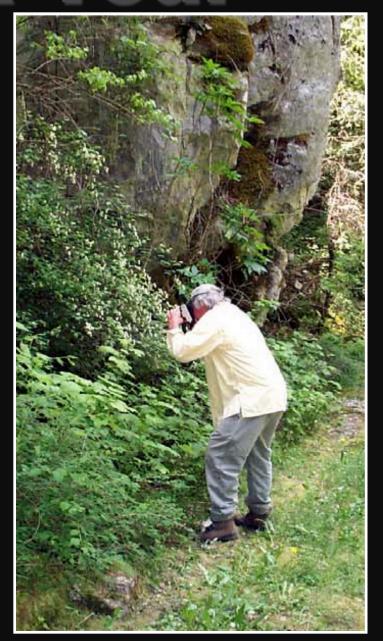
#### Mt. Hemlock



Douglas-fir

## Thank You!





#### Fire - A Catalyst for Change

