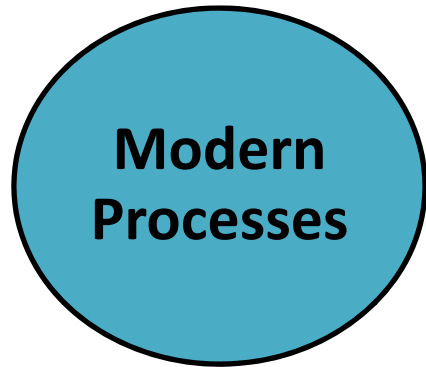
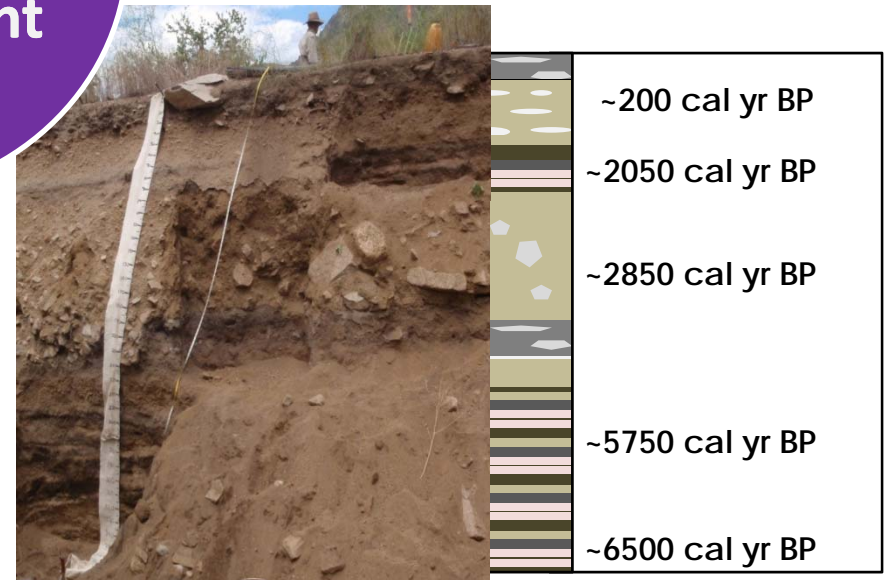
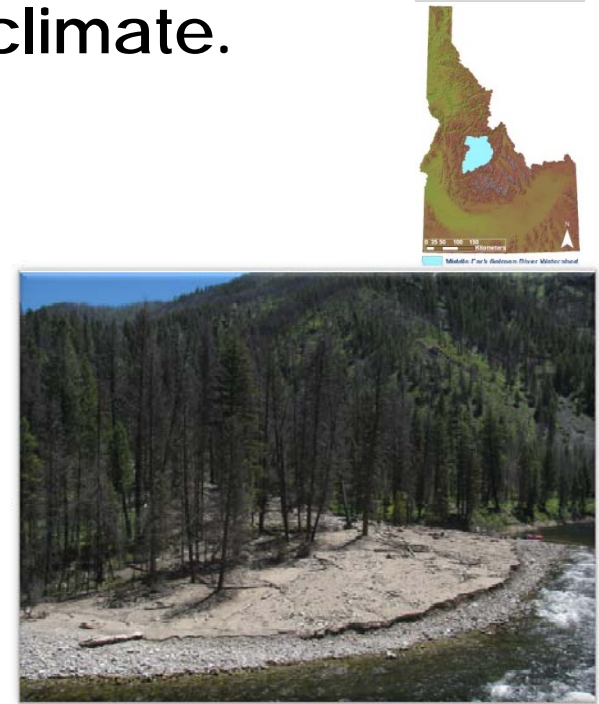
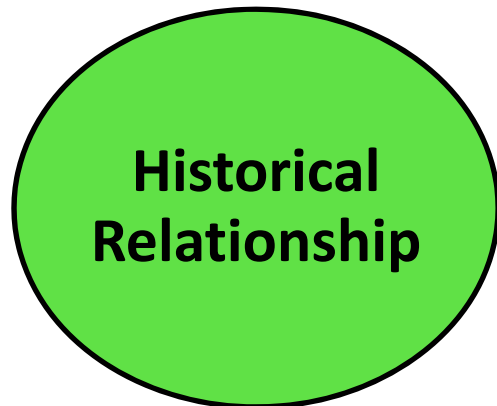


# The Middle Fork Salmon River, ID ... a natural laboratory to study landscape response to changing climate.



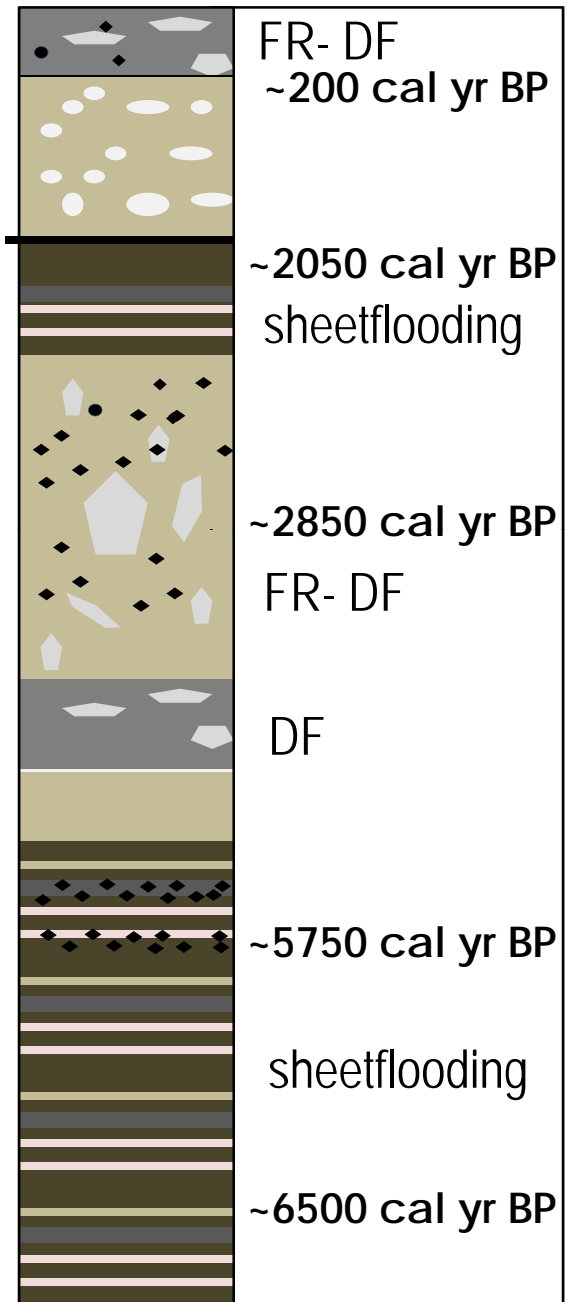
+



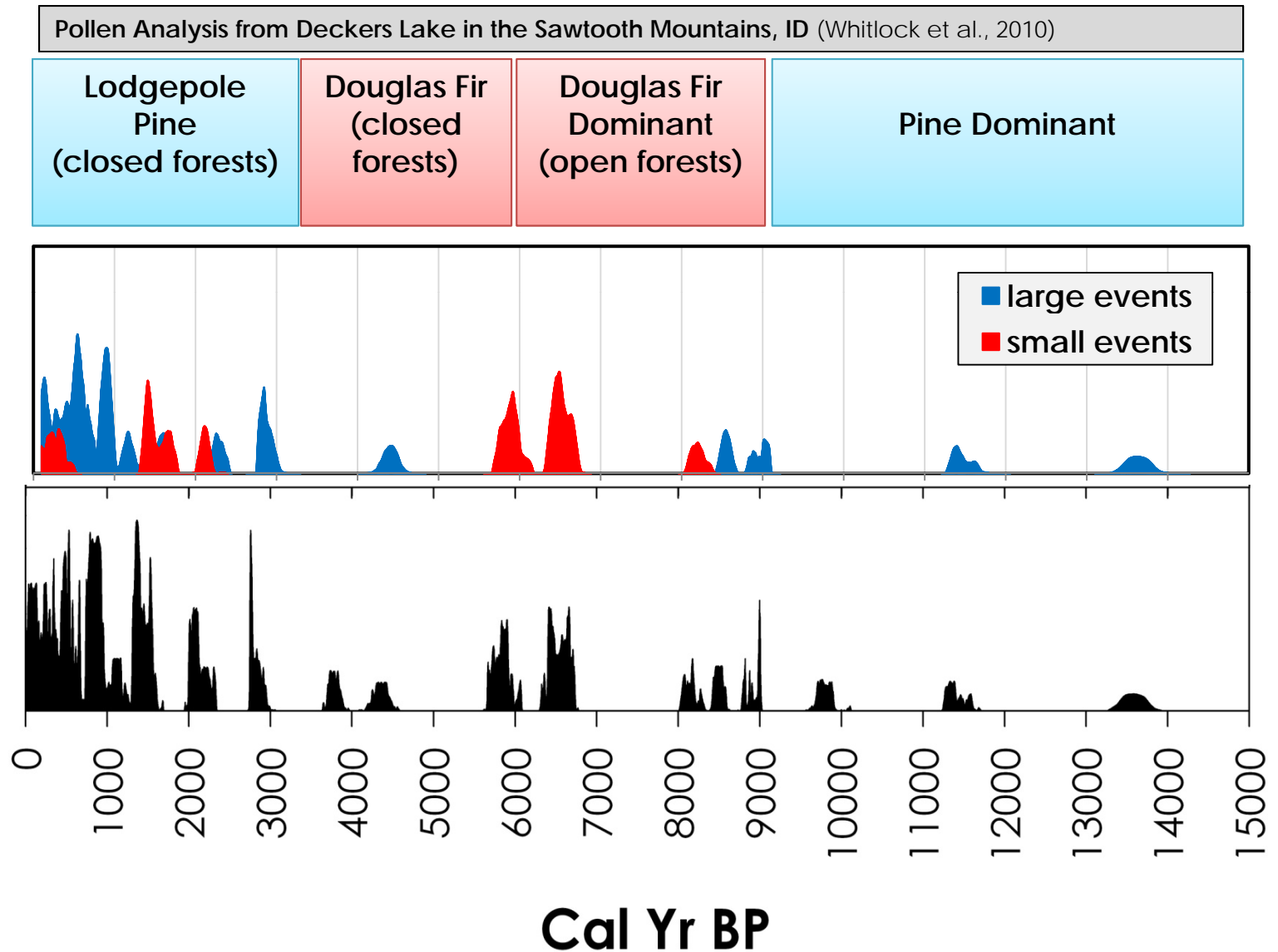


**Fire-related debris flow  
frequency calculation**

**1 event/ 200  
2 events/2850  
3 events/5750 yrs**



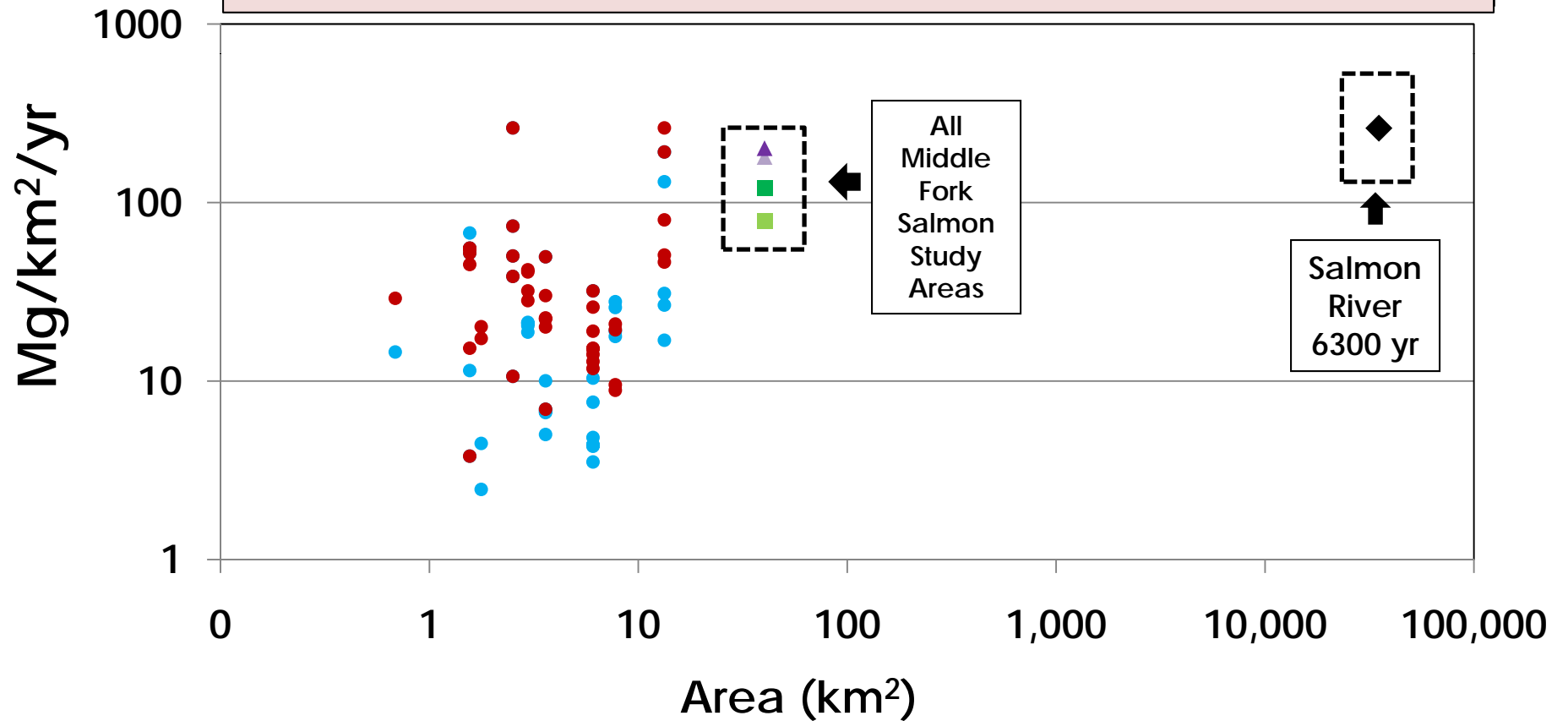
# How has climate change affected the landscape?



# Middle Fork Salmon River Sediment Yield Reconstruction

MFSR 2000 yr debris flow sediment yield ~ **180 Mg/km<sup>2</sup>/yr**

~70% of long-term sediment yield of Salmon R.



- Xeric low elevation ecosystems (sagebrush steppe, grasslands, xeric conifers)
- Mesic high elevation ecosystems (lodgepole pine, subalpine)

Relative Fire Probabilities

