Dendrochronology Activity

Activity goal: to identify and date the fire scars contained in your sample.

Instructions:

- Visually inspect your sample to identify the **outer ring** (next to the bark, if present)
- Locate the inner-most ring on the sample with a pencil dot on it (this is your zero ring)
- 3. Identify each **fire scar** contained in your sample
- 4. Identify other **pencil dots** on your sample moving out from your zero ring (one dot every 10 rings, two dots every 50 rings, and three dots every 100 rings)
 - = every 10
 - rings
 - ••• = every 50 rings = every 100 rings
- 5. Moving outward from the zero ring, record the **ring number of each fire event** (the ring on the inner side of a scar) in the "Historical Fire Events" table
 on the data sheet.
- 6. Record the **total number of rings** in your sample under "Calculating Zero Ring Date" on the data sheet (*if it is difficult to count all the rings, or you are running out of time, you can look under the post-it note on your sample for the total number of rings)*
- 7. Calculate the zero ring date in the space provided on the data sheet by subtracting the total number of rings from the outer ring year (2008).
 Record this number in the "Zero Year" box on the data sheet.
- 8. Determine the **fire year** of each fire event by adding the ring number of that fire scar to the date of the zero year. Record in "Fire Year" column below.
- 9. Pooling class data: Record the data from your sample on the master chronology on the butcher paper timeline on the wall:
 - ✓ Draw a **horizontal line** representing your sample ring series from your zero year to 2008 (next to your sample ID on the y-axis)
 - ✓ Make a **small vertical hash mark** on the year of each recorded fire (find the timeline on the x-axis)

Dendrochronology Data Sheet

Sample ID number: _	
Team member(s):	

Historical Fire Events:

Fire Event	Ring Number	Fire Year
Number		(zero year + ring
		#)
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		

Calculating Zero Ring Date:

Year Sampled >>	2008
- Total Number of Rings->	
= Zero Year:	