

And now
the.

**QUESTION
#10**

**THE NATS 101-GC
TREE-RING
EXTRAVAGANZA!!**

Part 1



Question #10 will get
you started on:

Assignment 1-3
(the in-class part)

**The Bristlecone Pine
(BCP) Activity**

TODAY:

→ **Skeleton Plotting** your own core by hand, then

→ **Pattern-Matching** with the other students in your group to make a Site Composite, then

→ **Crossdating** with the Master Skeleton Plot (assigning Calendar dates to your own plot)



Your “paper”
cores are from
real
**BRISTLECONE
PINE SITES**

*(you’ll learn more
about them on
Thursday)*

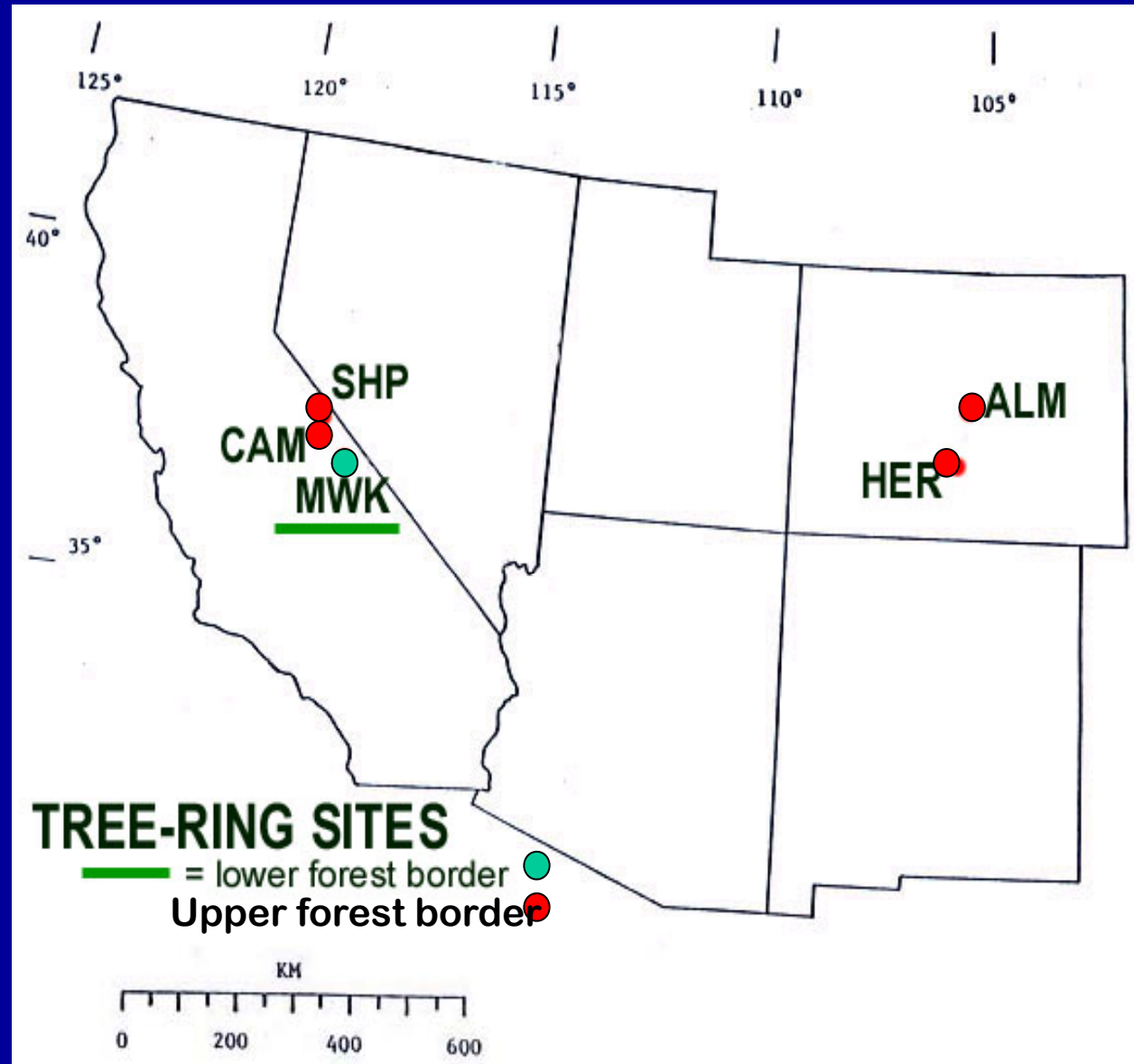
5 SITES IN WESTERN U.S.

All are
Bristlecone
Pine sites

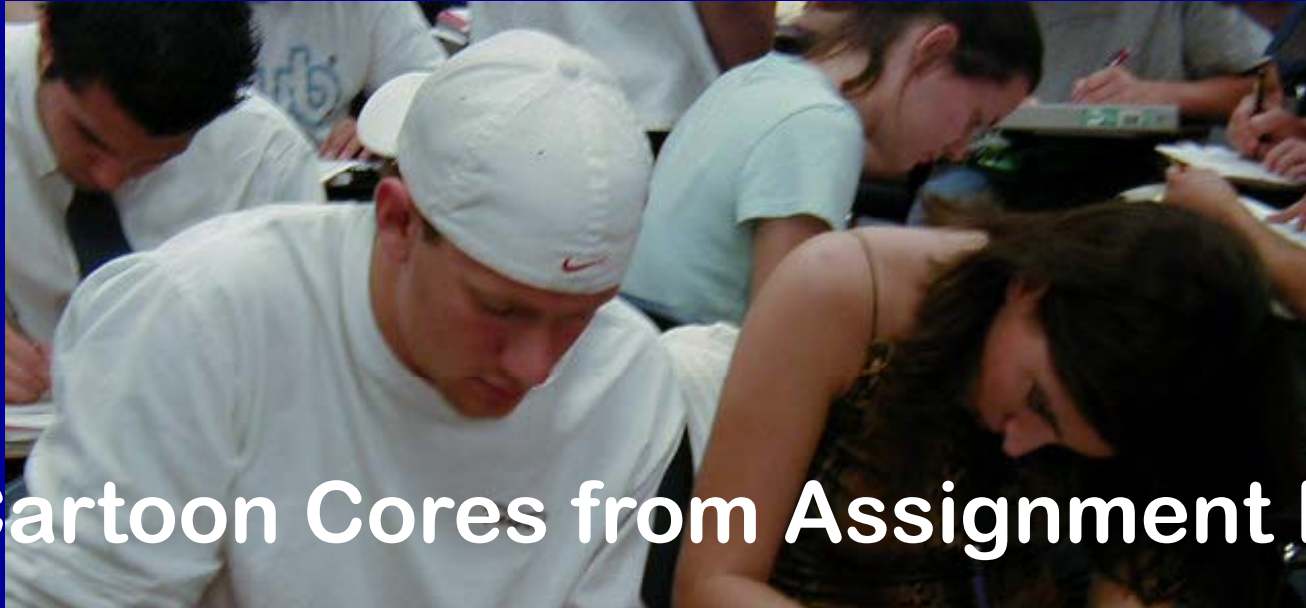
SITE NAME
(abbrev) CORE ID

Sheep Mt (SHP)	C
Campito Mt (CAM)	D
Methuselah Walk (MWK)	B
Almagre Mt (ALM)	E
Hermit Lake (HER)	A

Map on
p 129



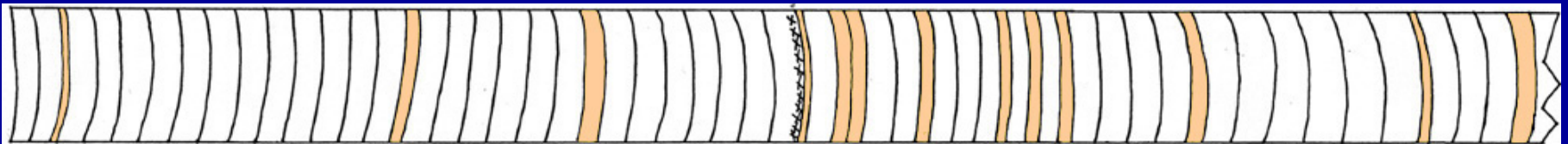
SKELETON PLOTTING YOUR OWN CORE



Cartoon Cores from Assignment 1-2:



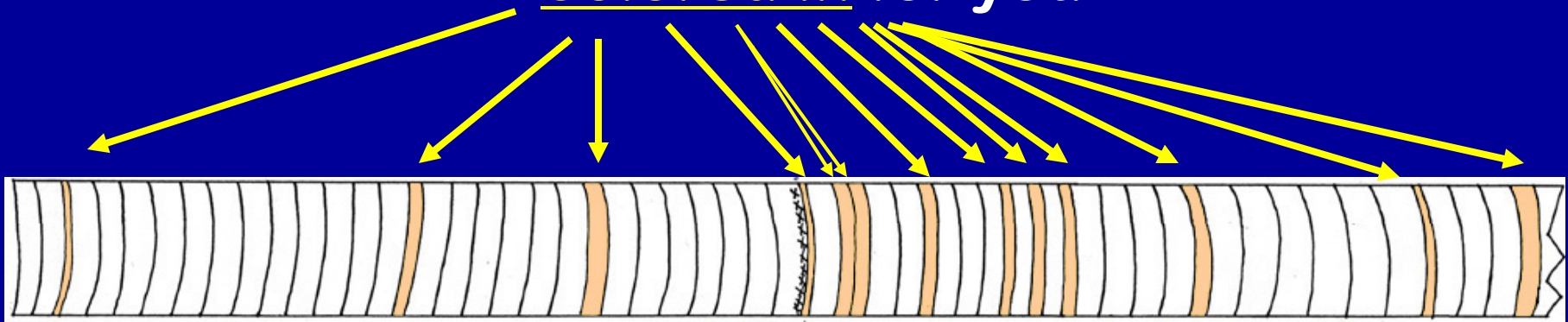
PROJECT'S PAPER CORES:



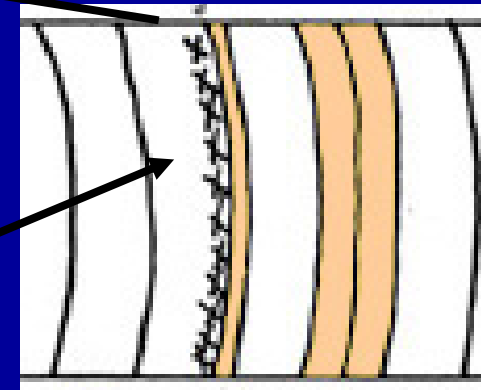
PROJECT'S PAPER CORES:

Earlywood & latewood NOT shown

INSTEAD: each narrow ring you should plot is
colored in for you

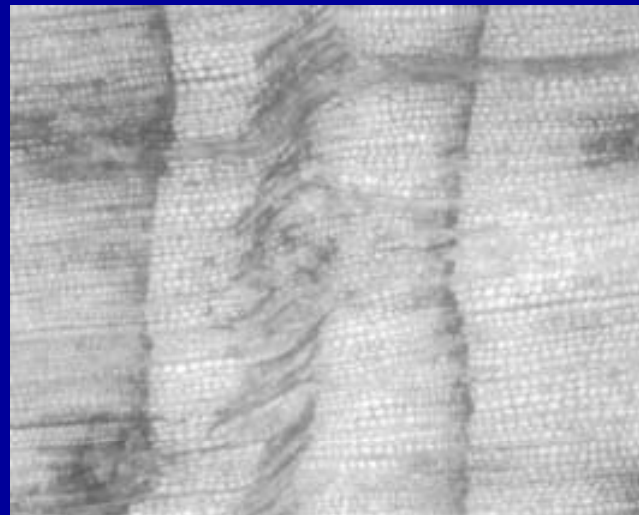
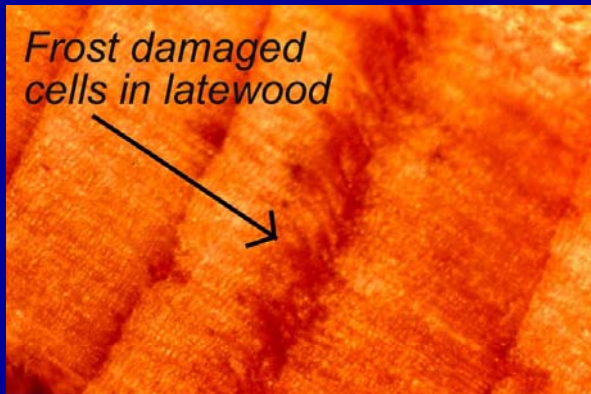


Frost ring = marked by xxxxx



WHAT ARE FROST RINGS?

Permanent wood damage in cells, due to freezing & expansion of intercellular water, can be useful for pattern matching & crossdating!



Produced by a severe freeze occurring **DURING** the tree's growing season

SETTING UP YOUR SKELETON PLOT GRAPH PAPER:

Important: USE A PENCIL not a pen!

Core ID #
Your NAME

LABEL intervals of 10



Starting Flag for
Ring 0 (first ring)

Ending Flag for LAST *complete* (not
jagged) RING in core -- **plot arrow when
finished**, not all cores have 60 rings

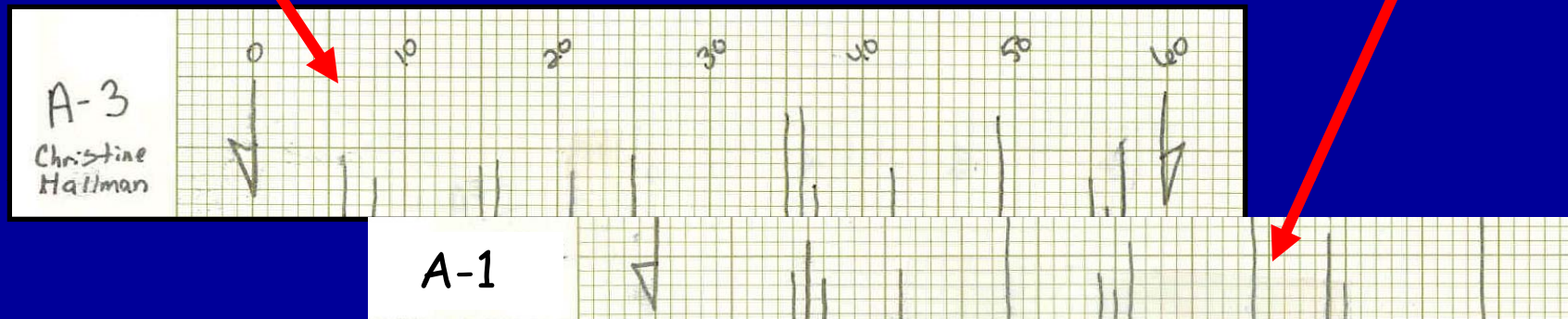
Pattern Matching



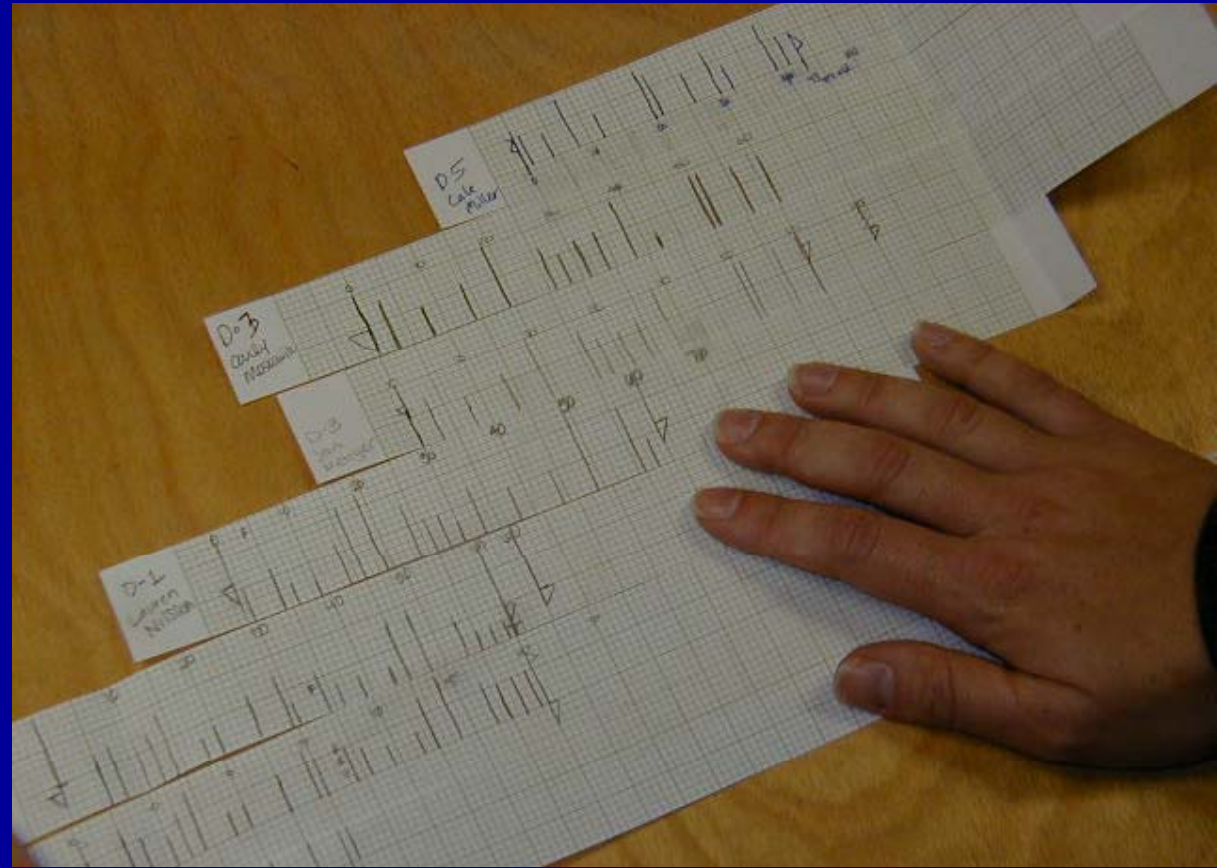
Pattern Matching

Student A's plot

Student B's plot



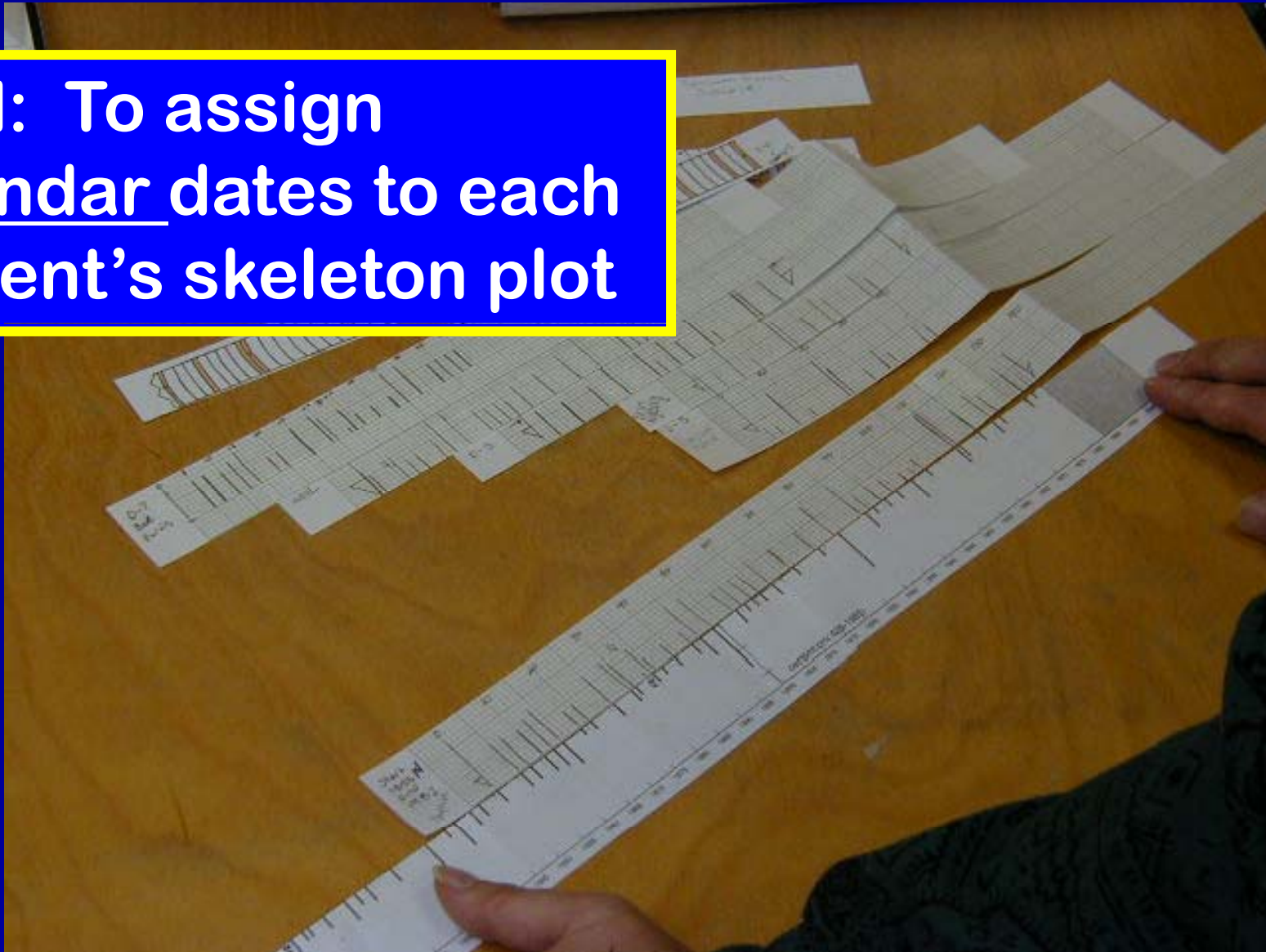
Making a Site Composite



**SITE COMPOSITE = all individual
plots from your site pattern-
matched & taped together**

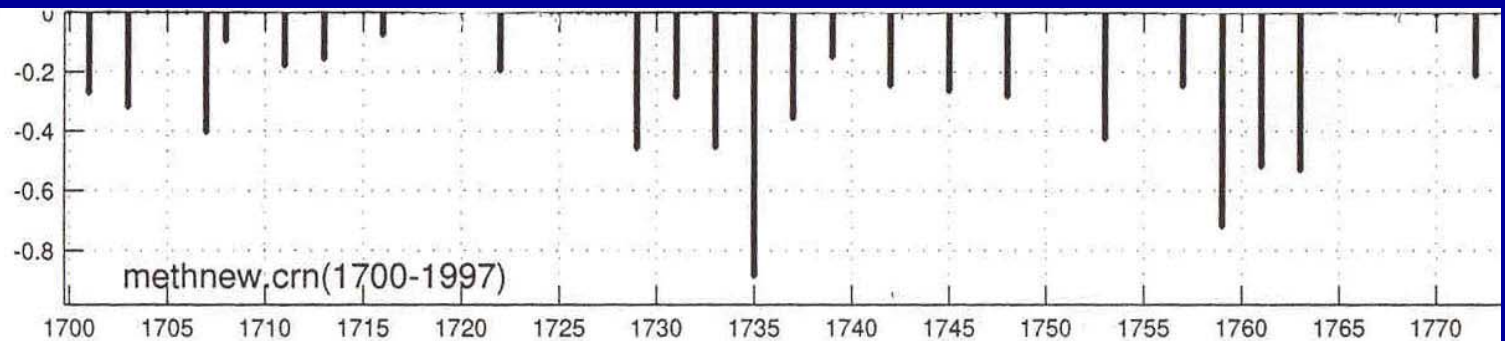
Crossdating with the Master

Goal: To assign calendar dates to each student's skeleton plot

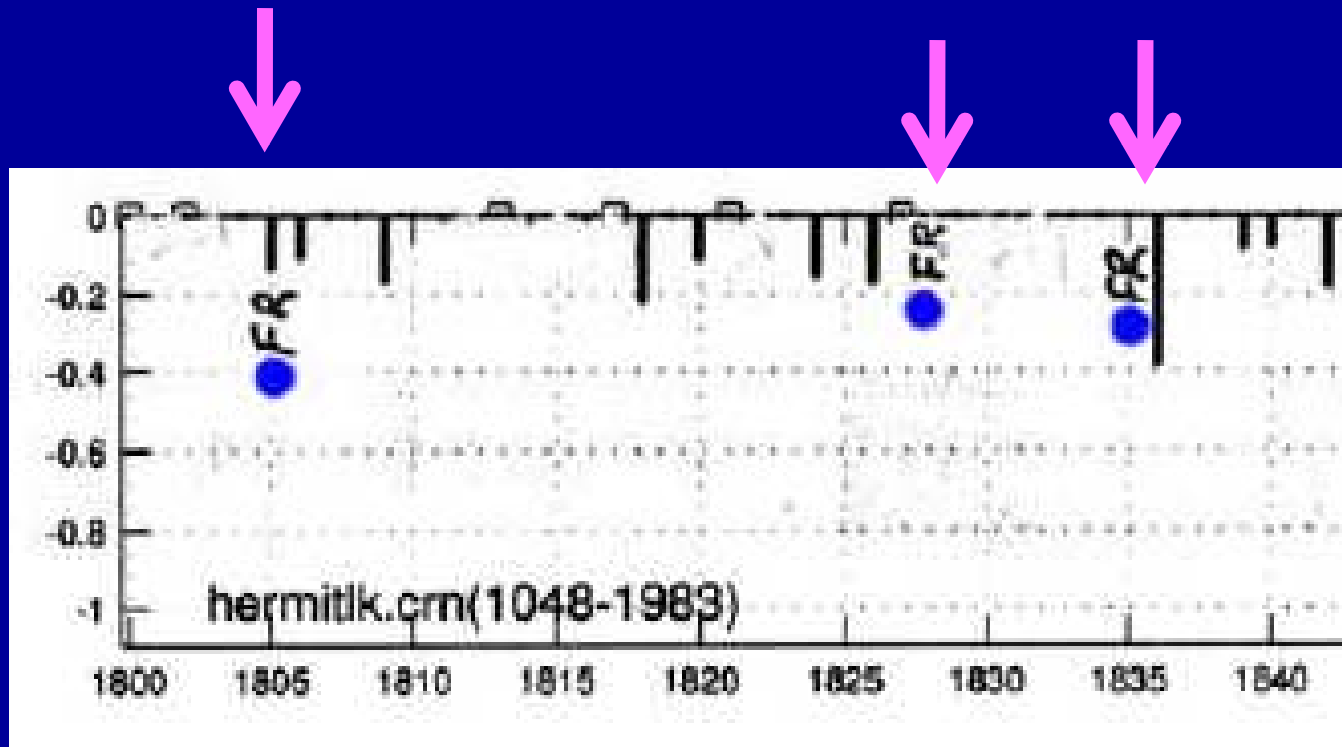


Site Skeleton Plot Masters (with dates marked & narrowest rings shown by long lines)

Methuselah
walk



Also on the Skeleton Plot Masters
you will find
“FROST RING YEARS” marked!



FR = frost ring year

TODAY – QUESTION #10:

(1) Plot the skeleton plot for the core given to you. **(Please DO NOT WRITE ON THE CORE ITSELF)**

(2) Be sure your name & the CORE ID # is on your GRAPH PAPER when your PLOT is done.

(3) Pattern match with other students – you'll tape together the plots into a **ateh SITE COMPOSITE** when match is made

TODAY – (cont.)

(4) After the SITE COMPOSITE IS TAPED TOGETHER – **Assign beginning and ending CALENDAR DATES** to each plot in the Composite

(5) When everyone's plot is dated, carefully take apart the composite and **LEAVE you CORE & your PLOT in your GROUP FOLDER for Question #10 validation.** – (Be sure your name and Core ID is on your PLOT.