

## G-3 WOOD KIT ACTIVITY INSTRUCTIONS

- Each Preceptor/TA is in charge of 2 boxes: a LARGE WHITE BOX and a SMALLER BROWN BOX. The boxes are labeled with the # of the two groups that will use them.

Here's a chart to work out the preceptor & TA GROUP ASSIGNMENTS

⚙ Lec 1+2 6 preceptors + 4 TAs (if Lizzie can help, otherwise KKH takes a group and doesn't circulate)		★ Lec 3+4 6 preceptors + 2 TAs (KKH & additional TA circulate)	
1 + 2	11 + 12	1 + 2	11 + 12
3 + 4	13 + 14	3 + 4	13 + 14
5 + 6	15 + 16	5 + 6	15
7 + 8	17 + 18	7 + 8	
9 + 10	19 + 20	9 + 10	

- Give the **smaller brown box** AND the **large sequoia cross section** (found in the black canvas bag) to one group.
- Give the **larger white box** to the other group.
- Have each group **identify their wood samples** using the **cards in the envelopes** included in each box.
  - IDs are written on each wood sample and correspond to the ID code on each of the cards in the envelope.**
- After groups identify the wood in the group's box, they should fill out the second page of the Wood Kit Activity sheet:
  - There can and **will** be multiple reasons to be written in **both** "for" and "against" columns for each species. **They should both be filled in for full credit.**
  - Steer the groups **away** from using "has rings" and "has distinct ring boundaries" for every entry... they need to use **all the dendrochronology vocabulary and concepts in the table to get full credit.**
- After the groups are finished with their first box, **have them pack everything up in the box** and put the cards into the envelope.
- Have **the groups then trade boxes** and carry out the activity for the second box in exactly the way as they did for the first box.

*Additional notes:*

SAGUARO:	actually puts on many growth rings in a single year, we don't know how many in this case
LODGEPOLE PINE	These three tree species may look complacent in some samples but they are actually
BRISTLECONE PINE	sensitive in their growth and have good interannual variability in the ring widths. Also,
SEQUOIA/GIANT REDWOOD	there are only segments available in the kits but the trees DO have good circuit uniformity.

Tree species	Reasons FOR using	Reasons for NOT using	Yes or No?
<b>Bristlecone pine</b> <i>Pinus longaeva</i>	<ul style="list-style-type: none"> <li>• Long record of growth</li> <li>• Sensitive growth</li> <li>• Good circuit uniformity</li> <li>• Has rings with distinct boundaries</li> </ul>	<ul style="list-style-type: none"> <li>• Concern about circuit uniformity?</li> <li>• Concern about sensitivity?</li> <li>• Really hard to see the rings! Need good magnification</li> </ul>	Y
<b>Fan palm</b> <i>Washingtonia spp.</i>	<ul style="list-style-type: none"> <li>• Long record of growth?</li> <li>• Circuit uniformity</li> </ul>	<ul style="list-style-type: none"> <li>• No rings</li> </ul>	N
<b>Lodgepole pine</b> <i>Pinus contorta</i>	<ul style="list-style-type: none"> <li>• Long record of growth</li> <li>• Sensitive growth/good interannual variability</li> <li>• Good circuit uniformity</li> <li>• Has rings with distinct boundaries</li> </ul>	<ul style="list-style-type: none"> <li>• Concern about circuit uniformity</li> </ul>	Y
<b>Mesquite</b> <i>Prosopis spp.</i>	<ul style="list-style-type: none"> <li>• Circuit uniformity ok...</li> <li>• Moderately sensitive growth</li> </ul>	<ul style="list-style-type: none"> <li>• Rings lack a distinct boundary</li> <li>• Circuit uniformity may be lacking</li> <li>• Short record of growth</li> </ul>	N
<b>Mulberry</b> <i>Morus spp.</i>	<ul style="list-style-type: none"> <li>• Some have good circuit uniformity</li> <li>• Has rings with distinct boundaries</li> </ul>	<ul style="list-style-type: none"> <li>• Short record of growth</li> <li>• Growth complacent</li> <li>• Some samples have poor circuit uniformity</li> </ul>	N
<b>Saguaro</b> <i>Carnegiea gigantea</i>	<ul style="list-style-type: none"> <li>• Has growth rings</li> <li>• Moderately long record</li> <li>• Sensitive growth</li> </ul>	<ul style="list-style-type: none"> <li>• Rings are not annual</li> <li>• Lacking circuit uniformity</li> </ul>	N
<b>Giant redwood</b> <i>Sequoiadendron giganteum</i>	<ul style="list-style-type: none"> <li>• Rings are annual with distinct boundaries</li> <li>• Long record of growth</li> <li>• Rings are sensitive</li> </ul>	<ul style="list-style-type: none"> <li>• Some samples do not seem very sensitive</li> <li>• May be unsure about circuit uniformity</li> </ul>	Y