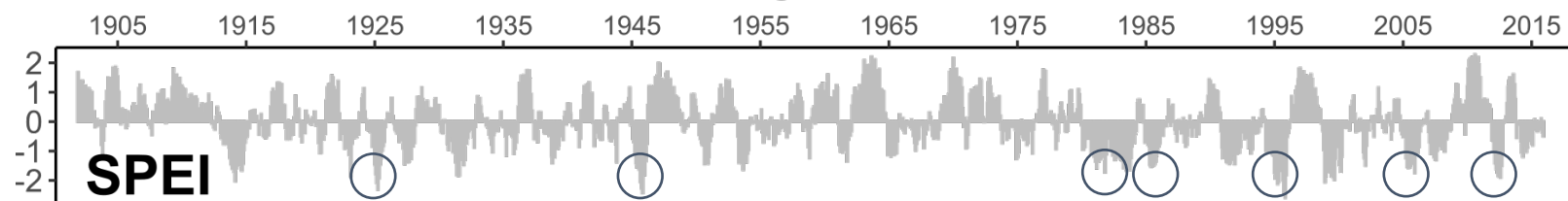
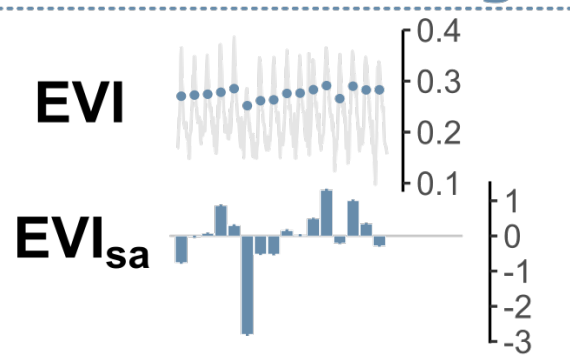


a

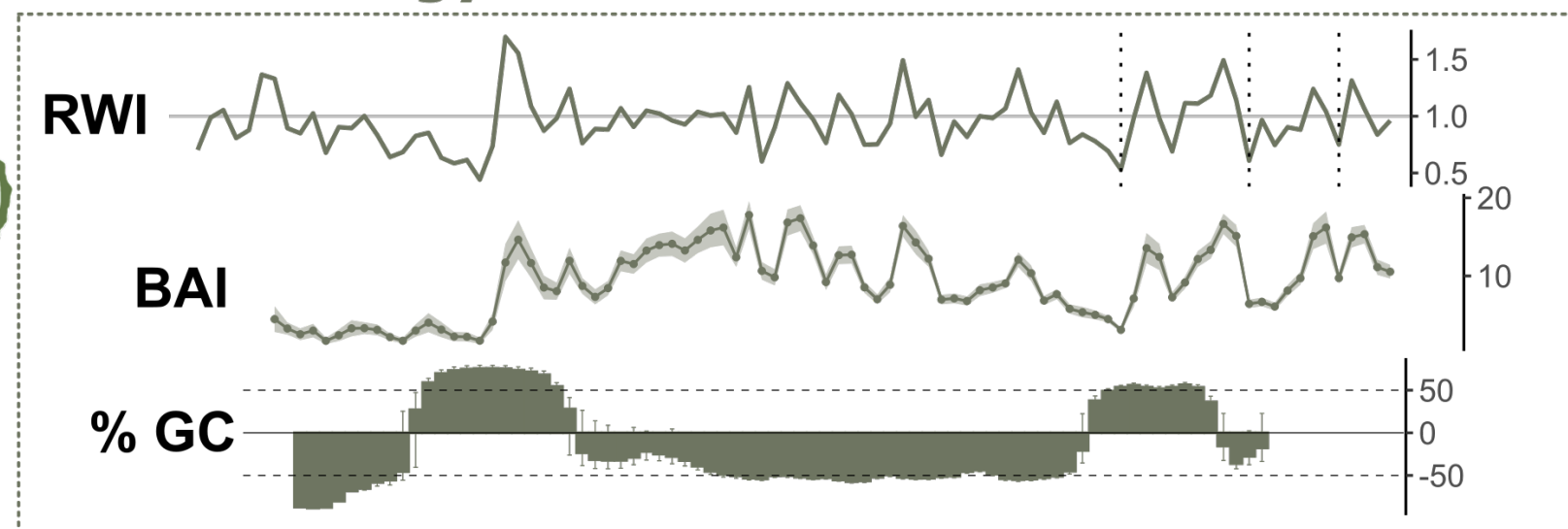
## Identification of Severe droughts



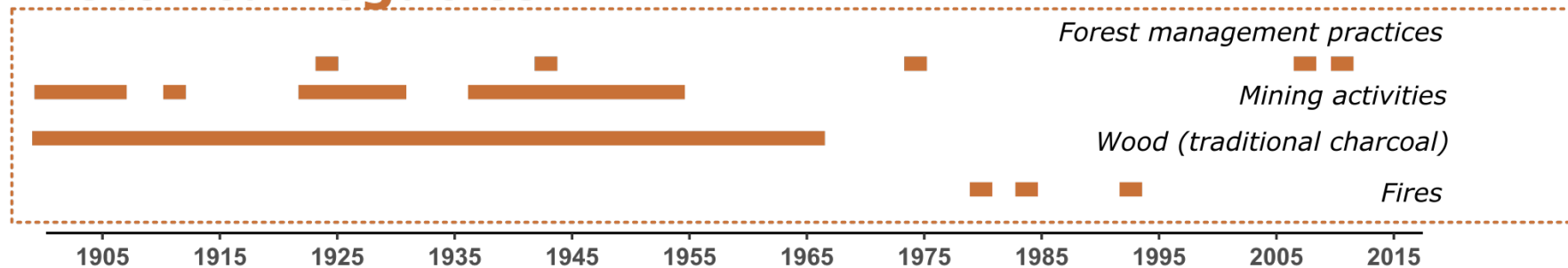
## Remote sensing



## Dendroecology



## Historical legacies



Time

b

## Impacts

Climate impacts

Non-climatic disturbances

EVI<sub>sa</sub>

1  
Mean RWI  
site  
chronologies

2  
TRW GC  
site-disturbance  
chronologies

Review of historical  
documents  
to infer anthropogenic  
alteration of habitat

## Responses

Short  
term

Long  
term

EVI  
resilience  
metrics  
2005, 2012

Mann-Kendall  
temporal  
trend

BAI  
resilience  
metrics  
most severe  
droughts (n=8)

Parametric  
temporal  
trend

at rear-edge

within  
rear-edge

Comparison  
between  
populations

4