

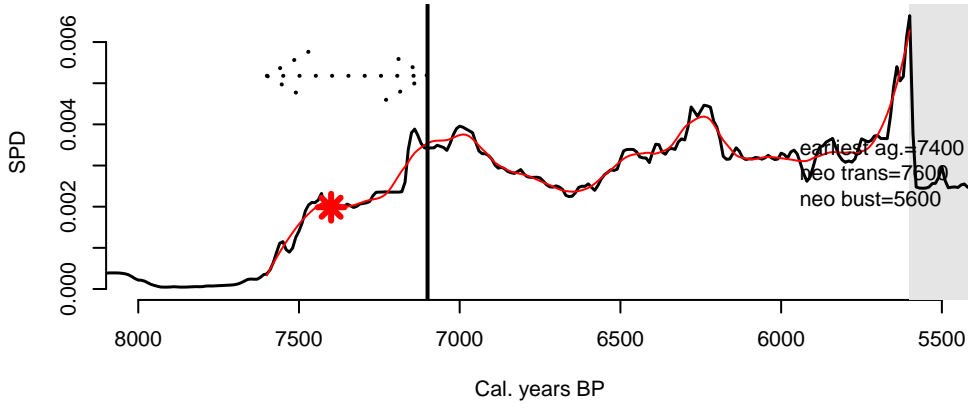
Supporting Information Datasets for “European  
Neolithic Societies Showed Early Warning  
Signals of Population Collapse”

Sean S. Downey, W. Randall Haas Jr., and Stephen Shennan

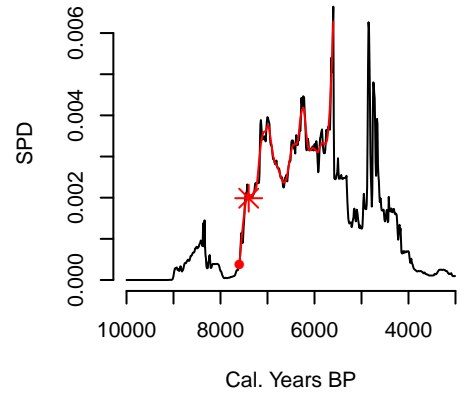
8 June, 2016

**EWS analysis for all regions.**

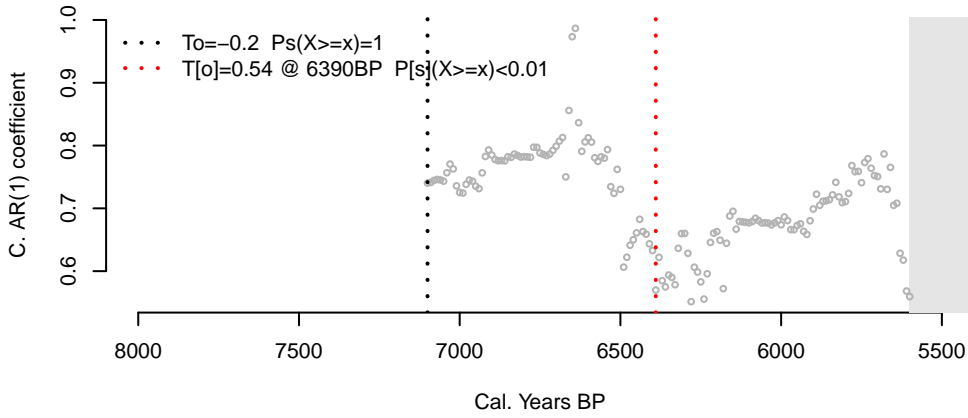
### A. Southern Germany beginning of increase to collapse



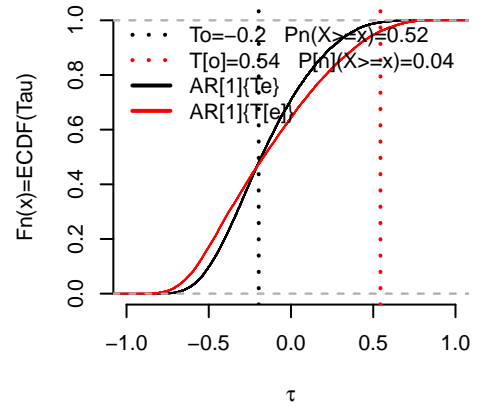
### B. Complete time series



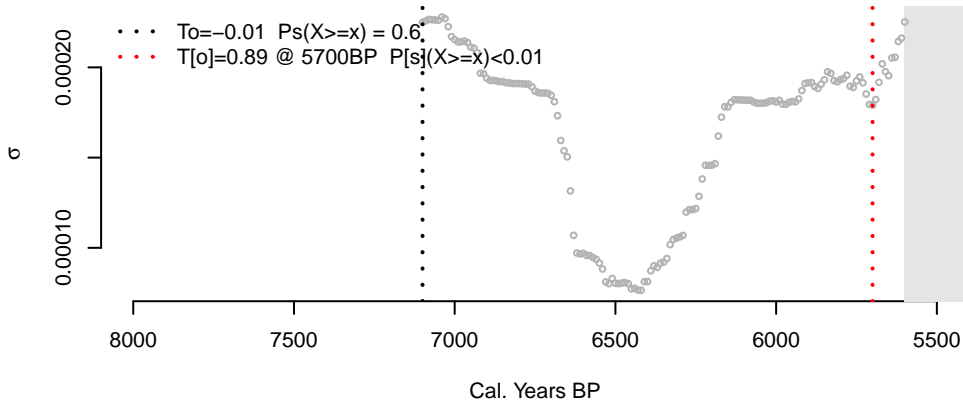
### C. AR[1]



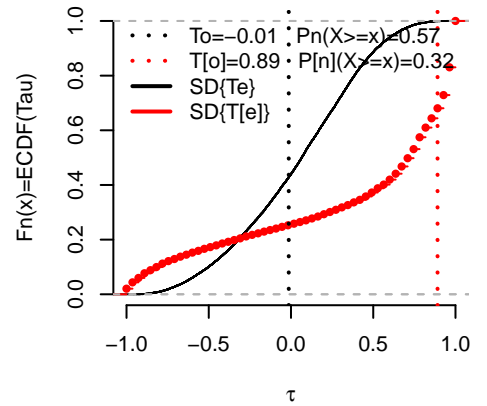
### D. AR[1]{Te}



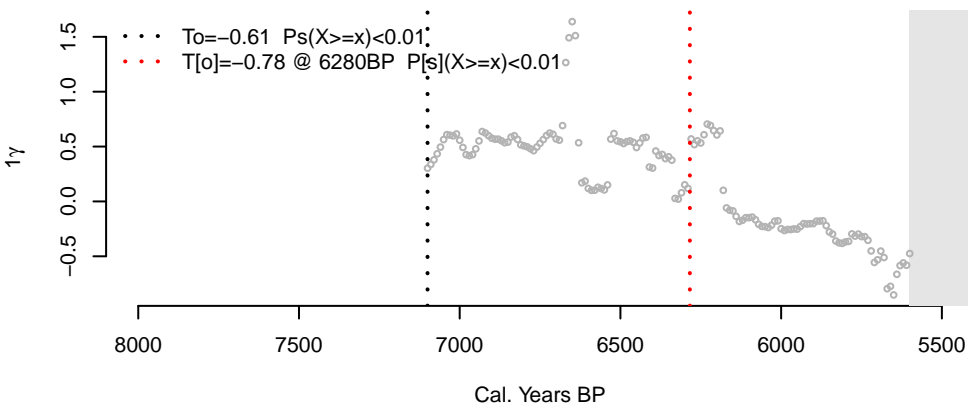
### E. Standard Deviation



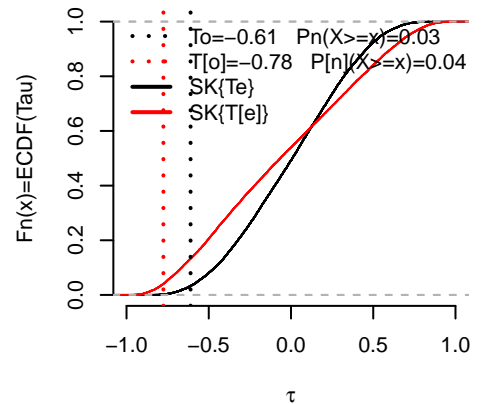
### F. SD{Te}



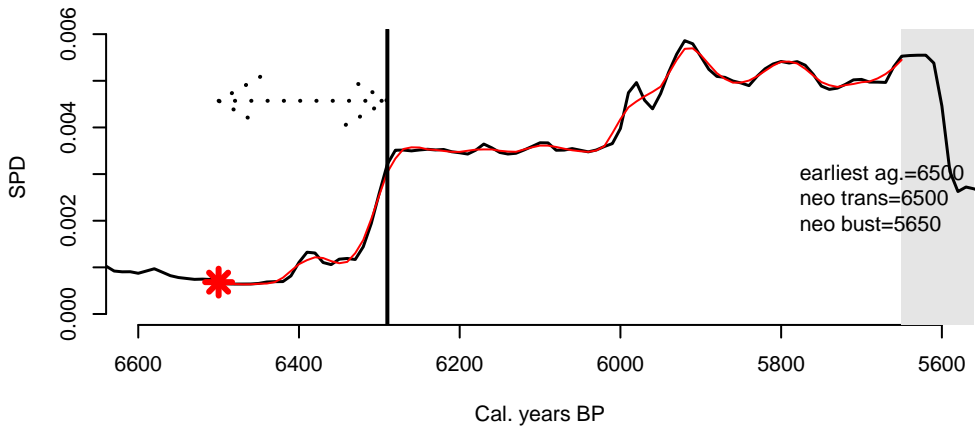
### G. Skewness



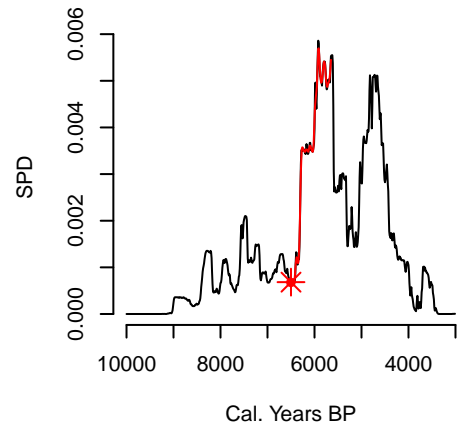
### H. SK{Tau sim}



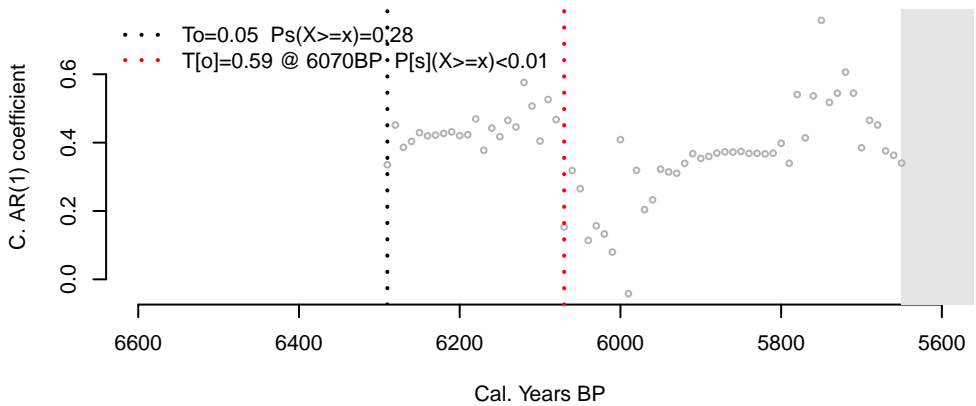
**A. Eastern Switzerland beginning of increase to collapse**



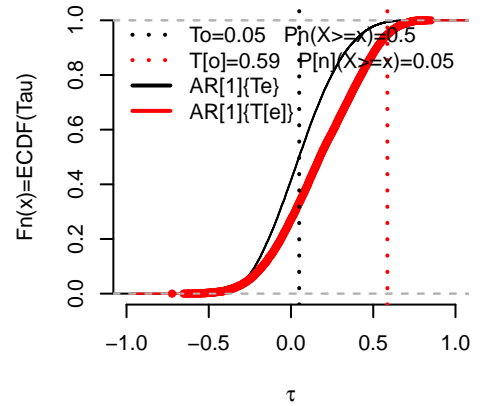
**B. Complete time series**



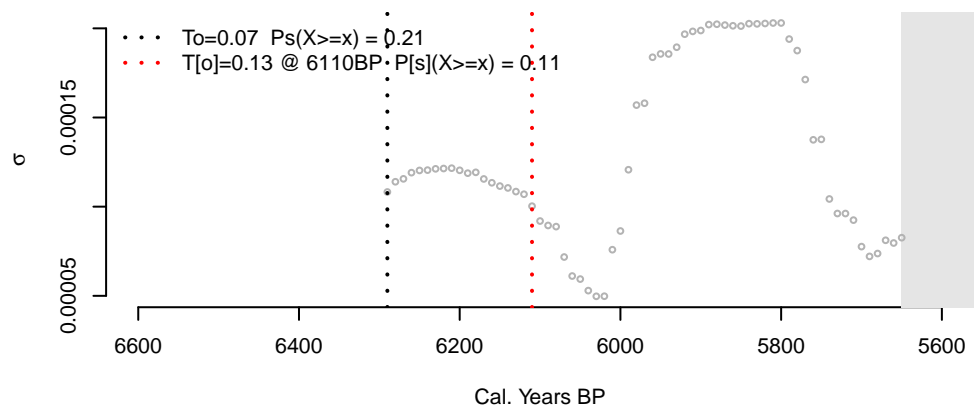
**C. AR[1]**



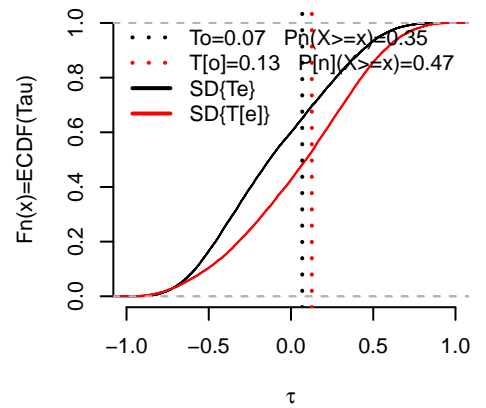
**D. AR[1]{Te}**



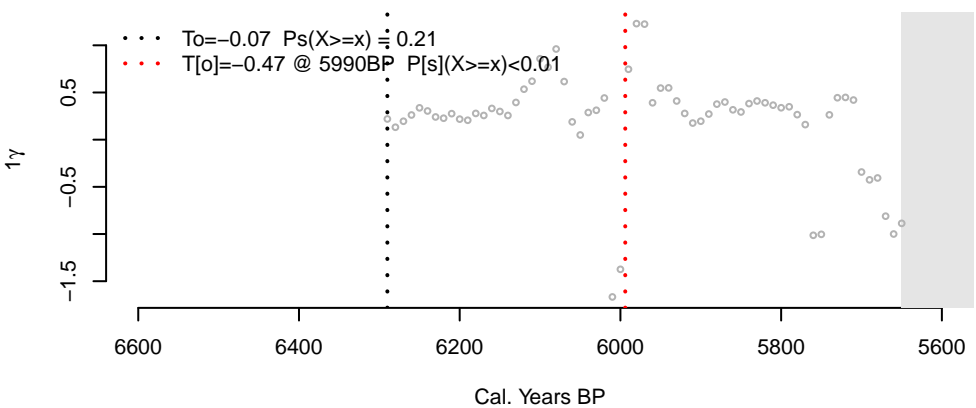
**E. Standard Deviation**



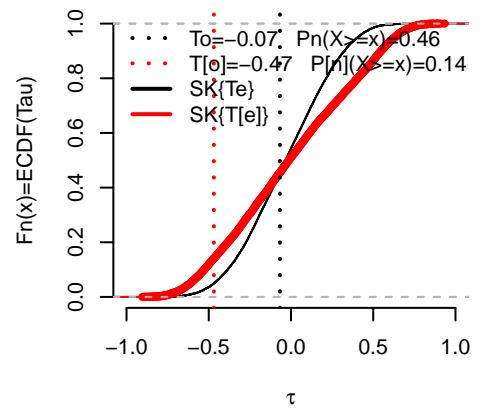
**F. SD{Te}**



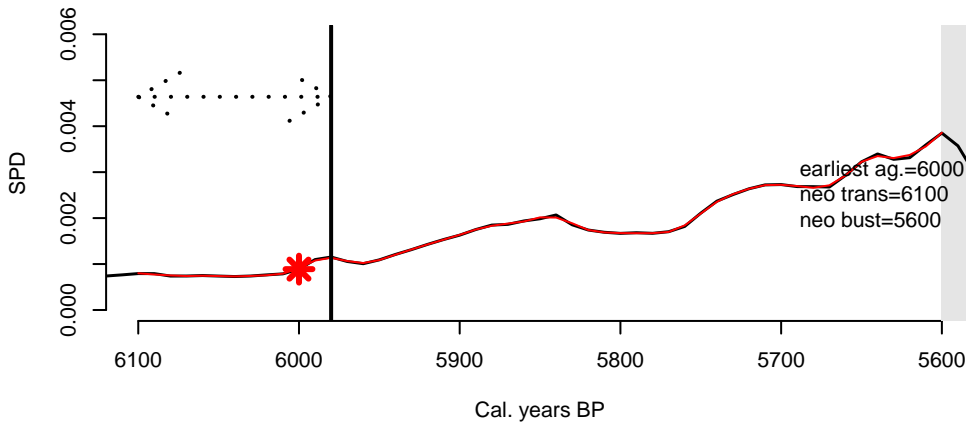
**G. Skewness**



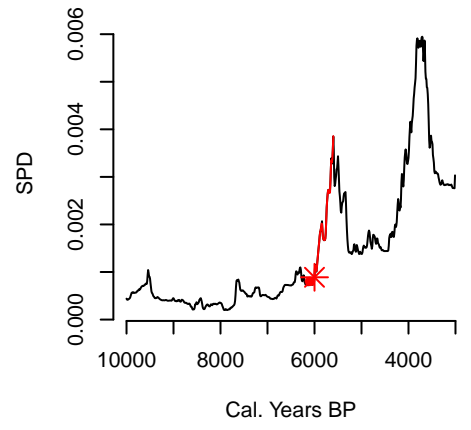
**H. SK{Tau sim}**



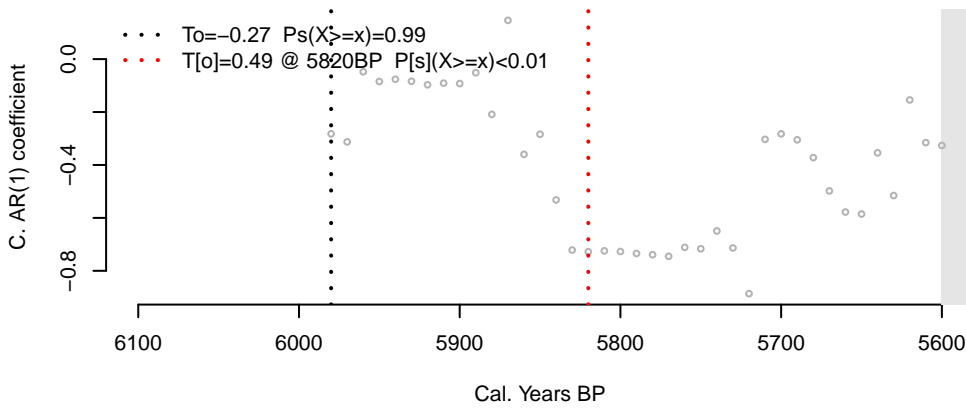
### A. England and Wales (w/o Wessex & Sussex) beginning of increase to collaps



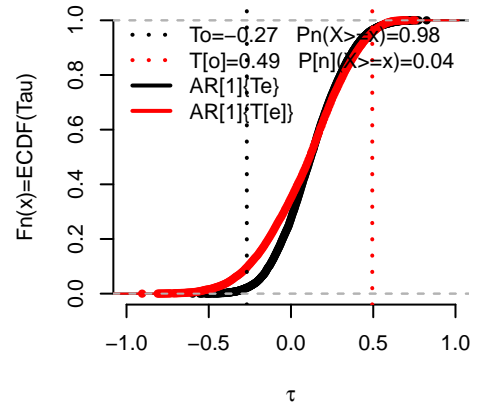
### B. Complete time series



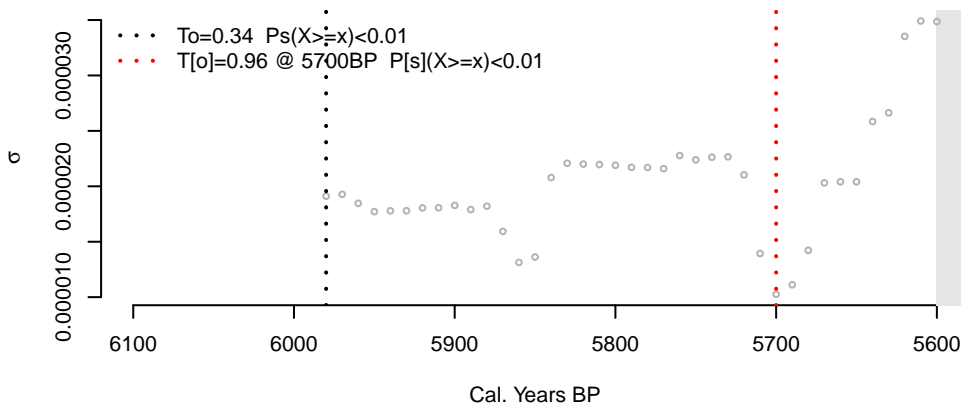
### C. AR[1]



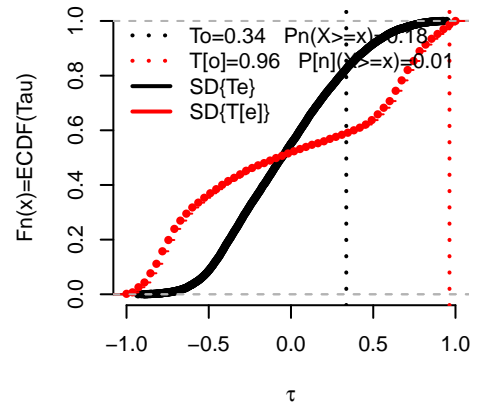
### D. AR[1]{Te}



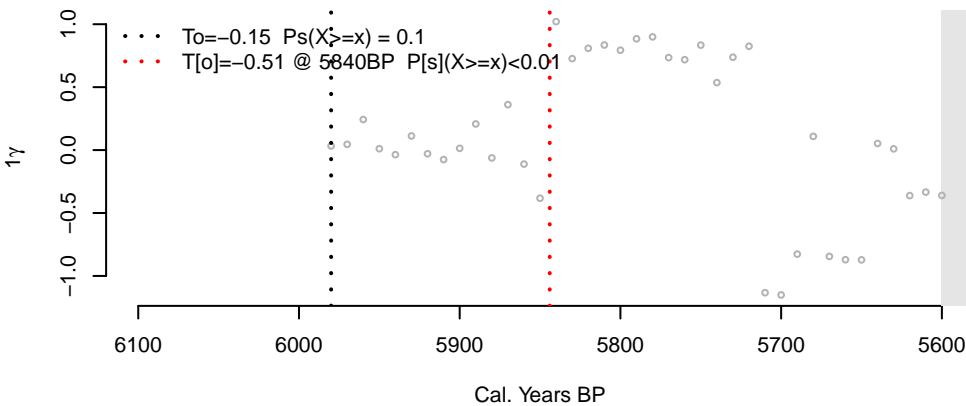
### E. Standard Deviation



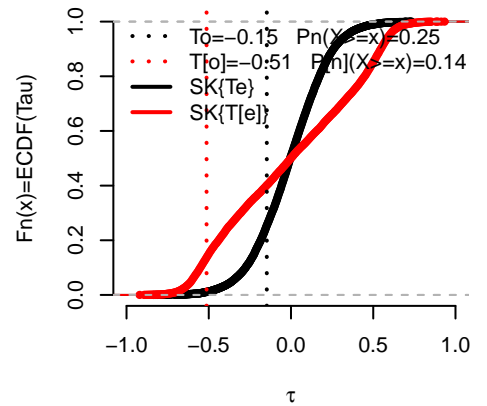
### F. SD{Te}



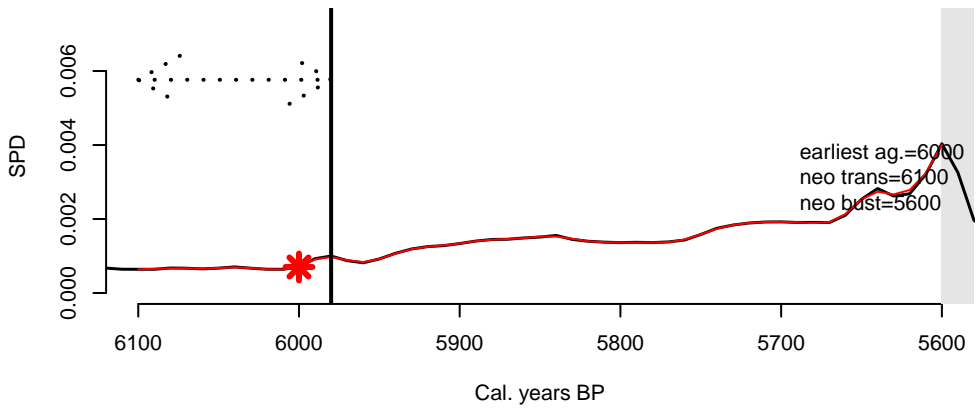
### G. Skewness



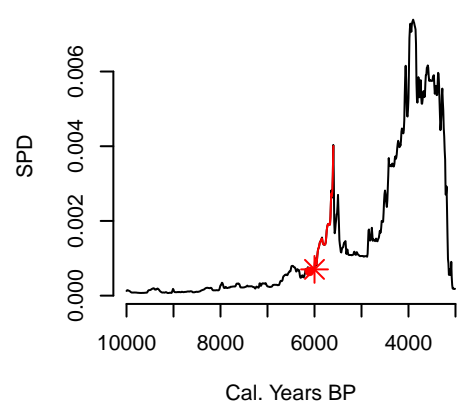
### H. SK{Tau sim}



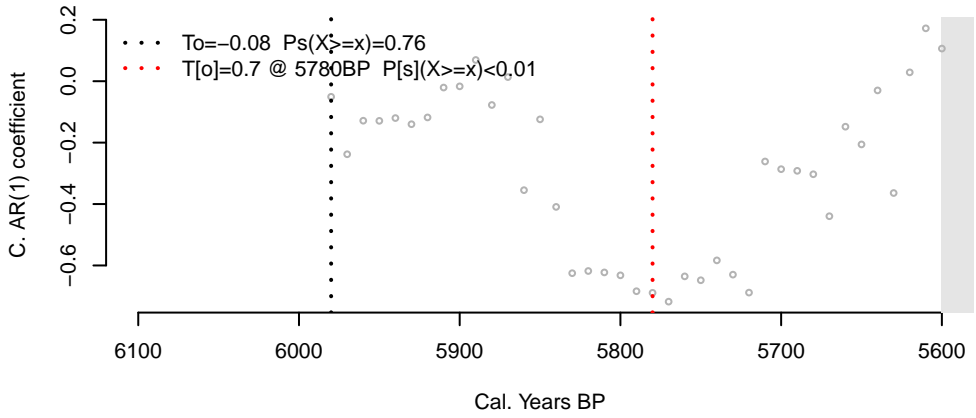
### A. Ireland beginning of increase to collapse



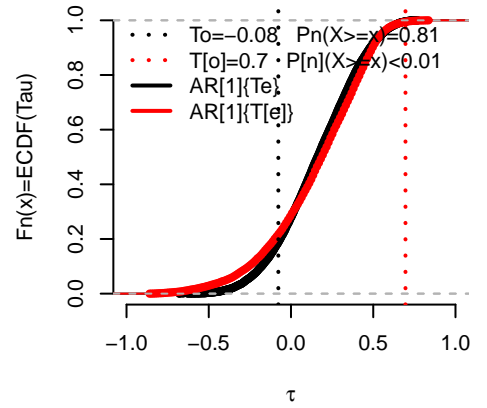
### B. Complete time series



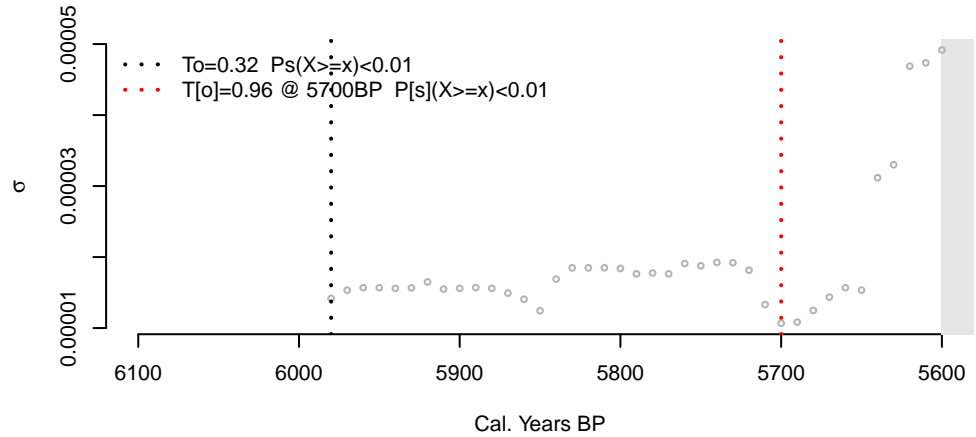
### C. AR[1]



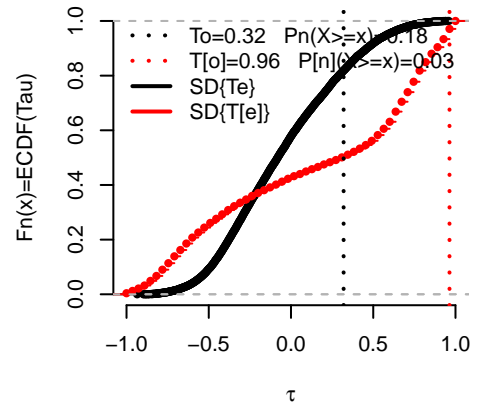
### D. AR[1]{Te}



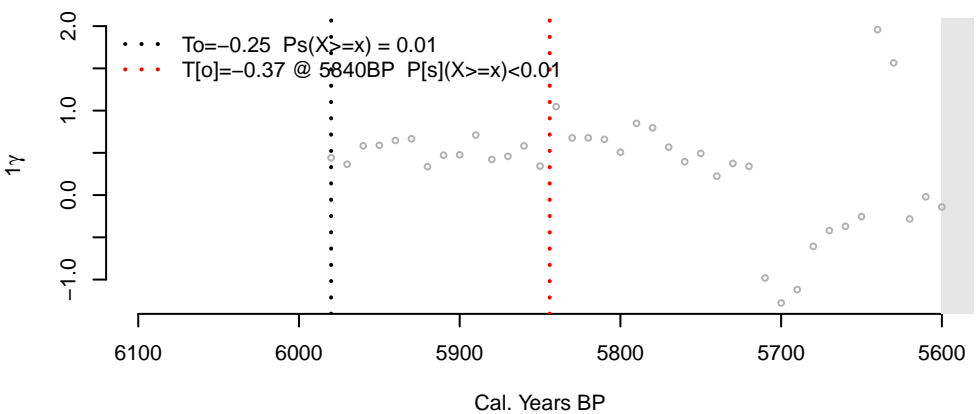
### E. Standard Deviation



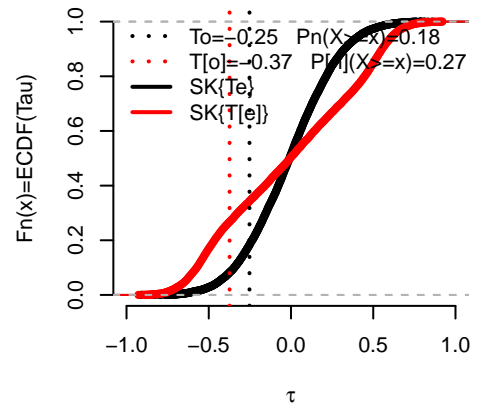
### F. SD{Te}

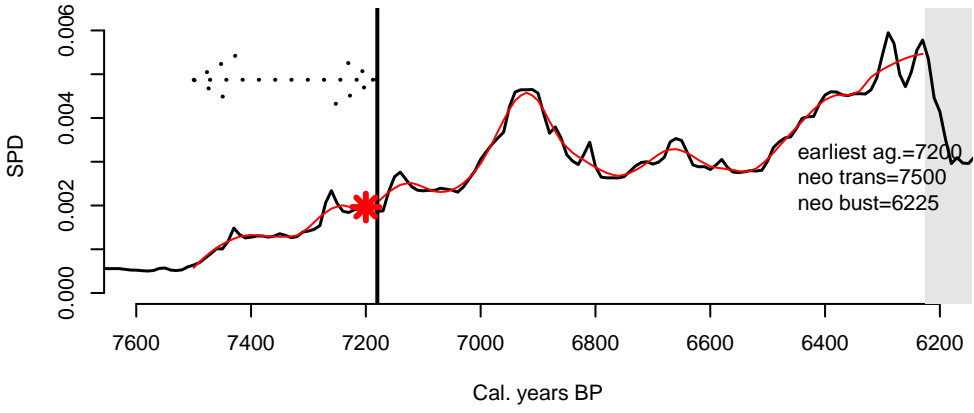
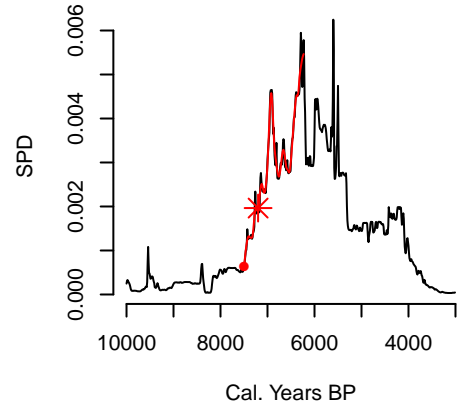
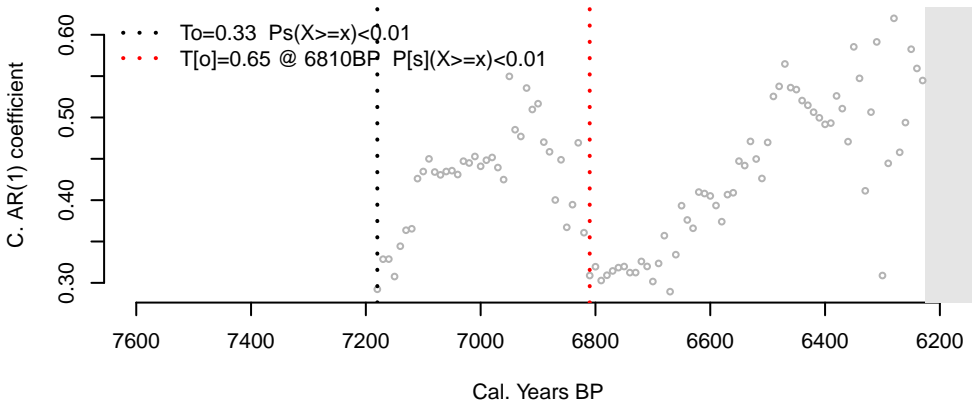
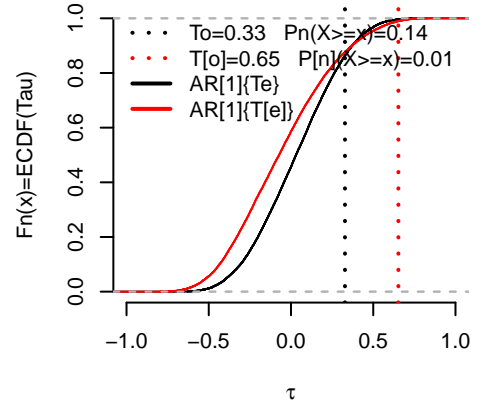
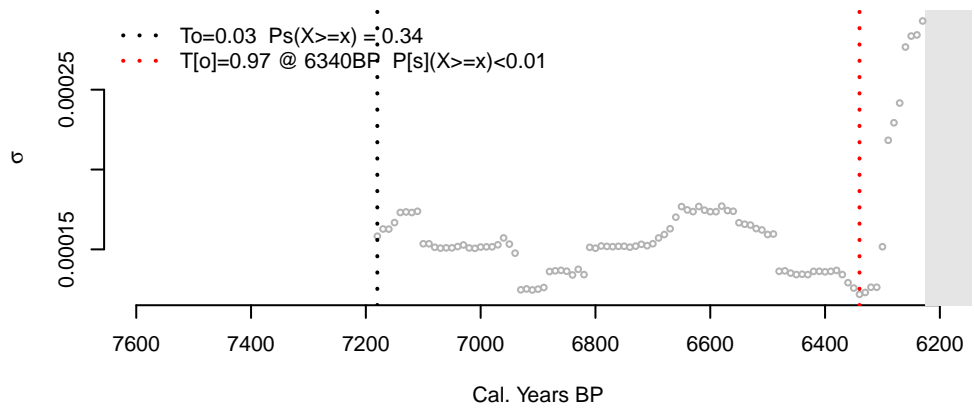
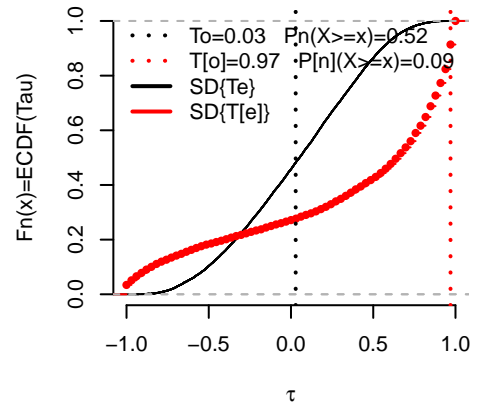
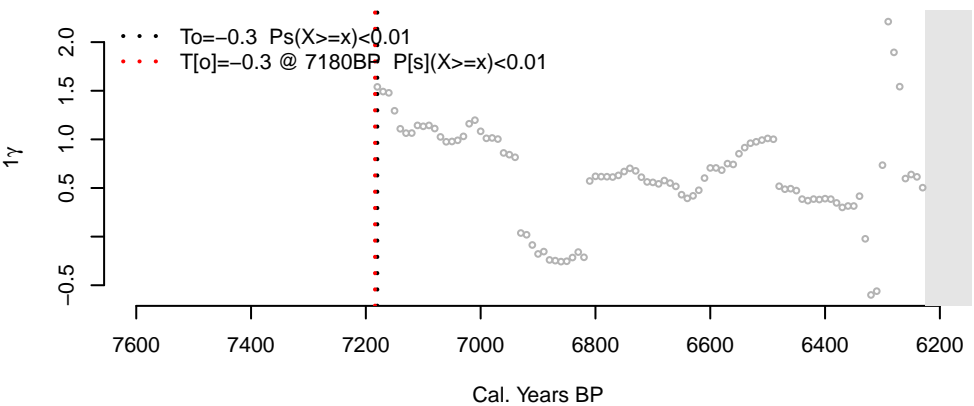
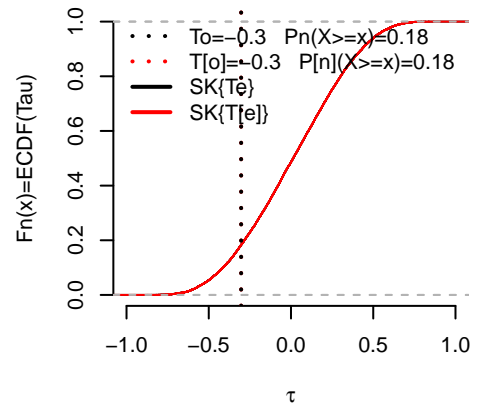


### G. Skewness

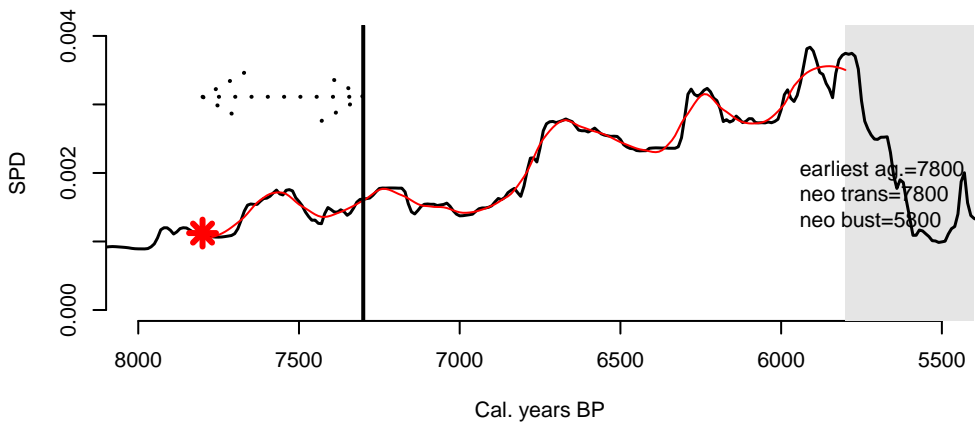


### H. SK{Tau sim}

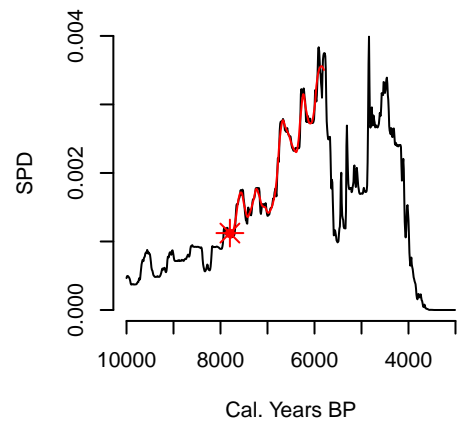


**A. Paris Basin beginning of increase to collapse****B. Complete time series****C. AR[1]****D. AR[1]{Te}****E. Standard Deviation****F. SD{Te}****G. Skewness****H. SK{Tau sim}**

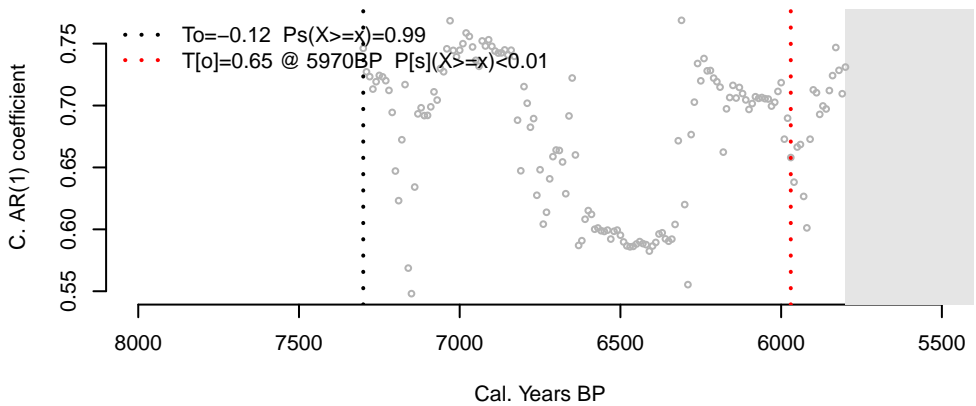
**A. Rhone-Languedoc beginning of increase to collapse**



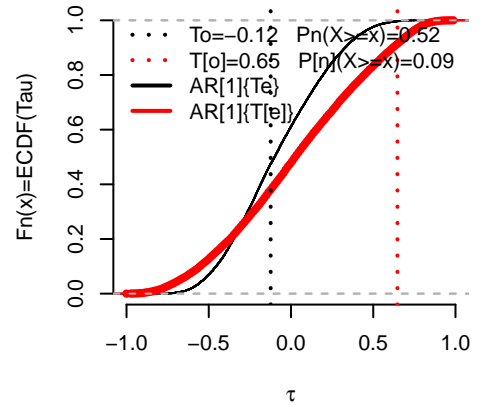
**B. Complete time series**



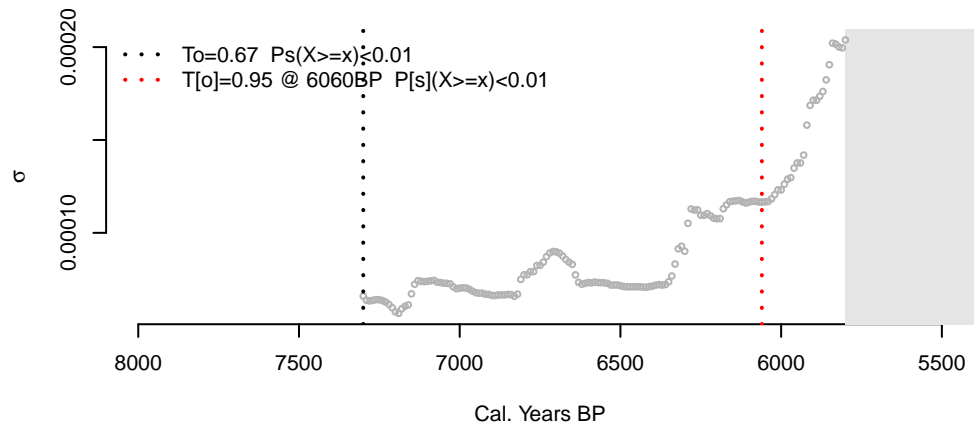
**C. AR[1]**



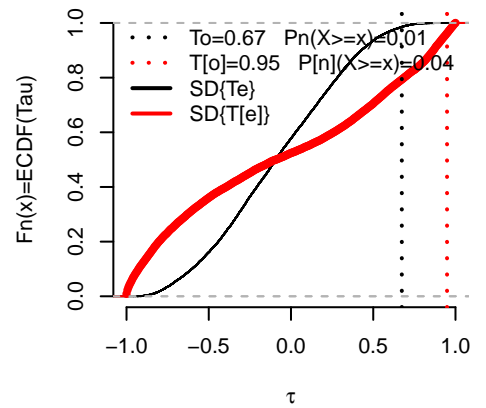
**D. AR[1]{Te}**



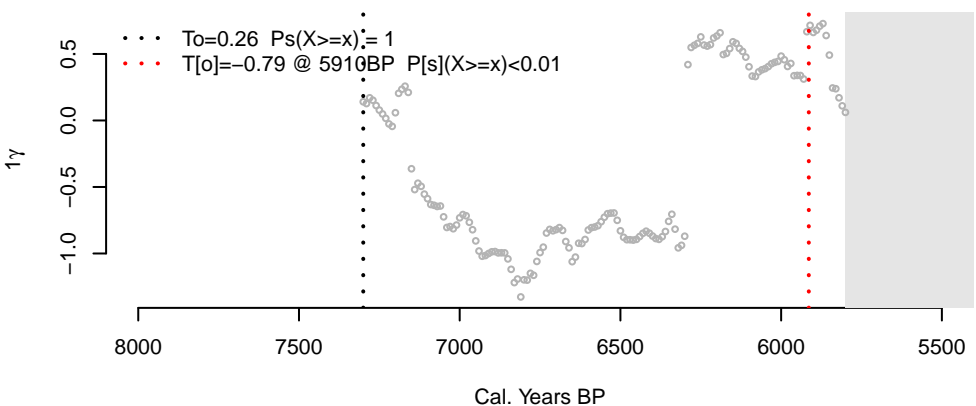
**E. Standard Deviation**



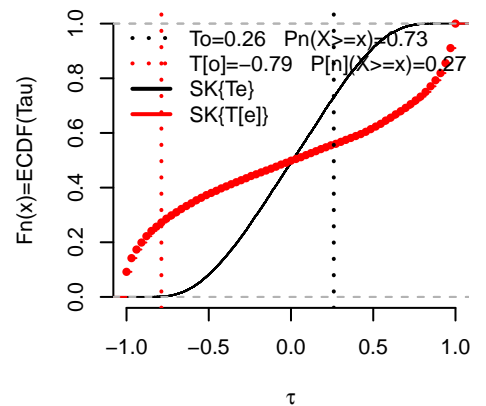
**F. SD{Te}**



**G. Skewness**

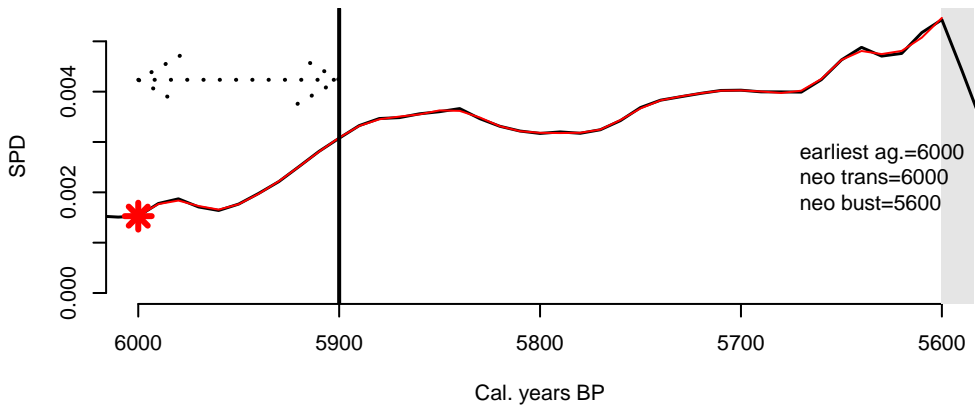


**H. SK{Tau sim}**

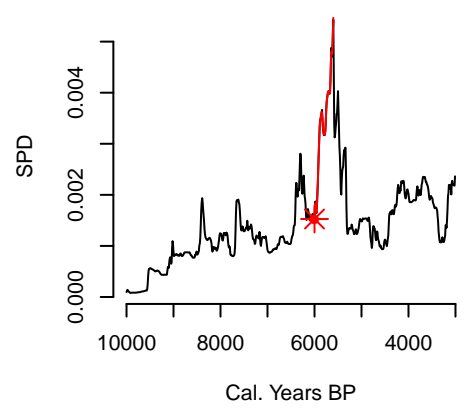




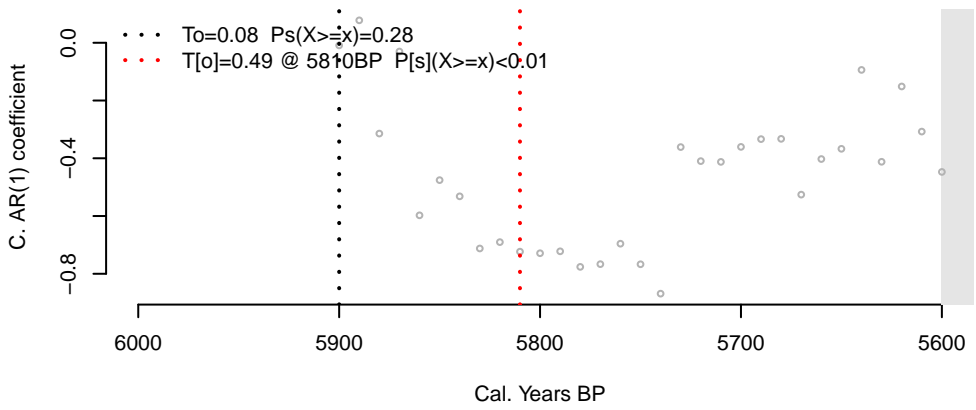
### A. Scotland beginning of increase to collapse



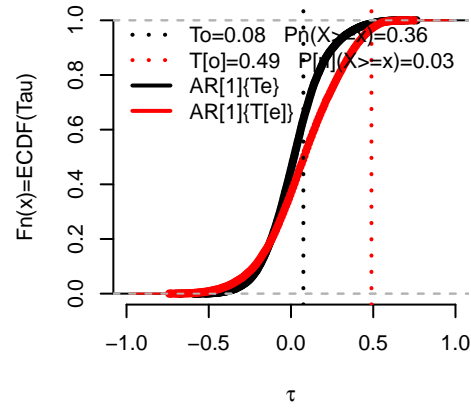
### B. Complete time series



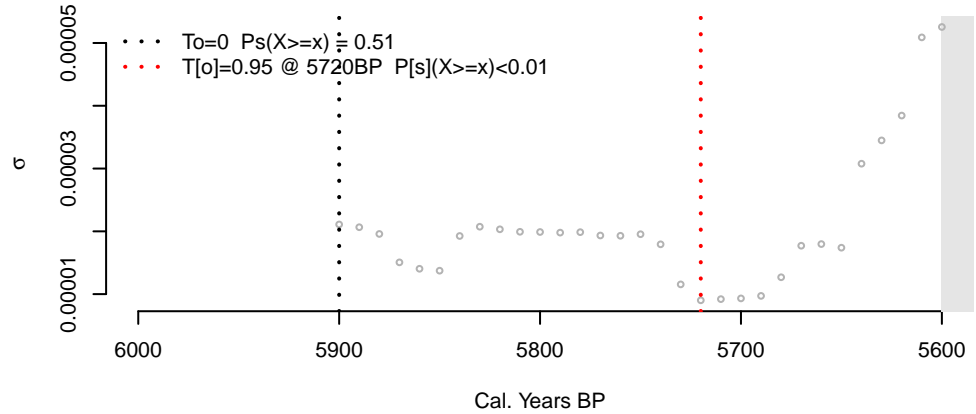
### C. AR[1]



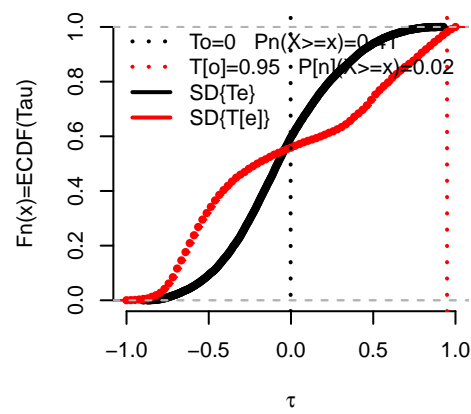
### D. AR[1]{Te}



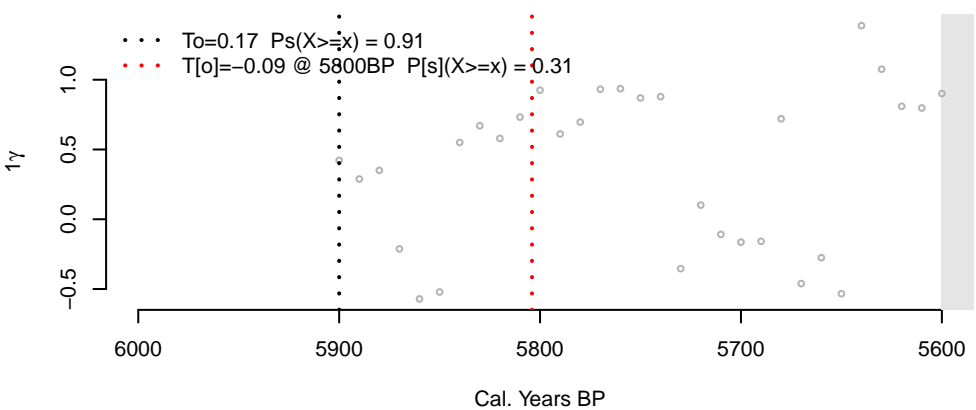
### E. Standard Deviation



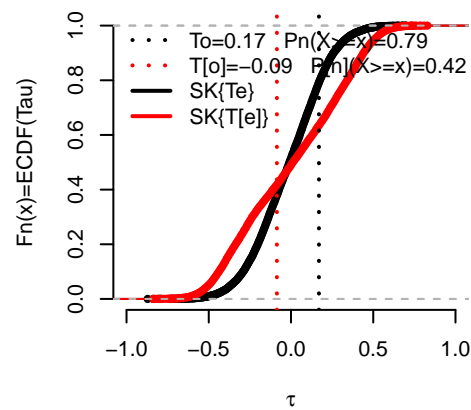
### F. SD{Te}



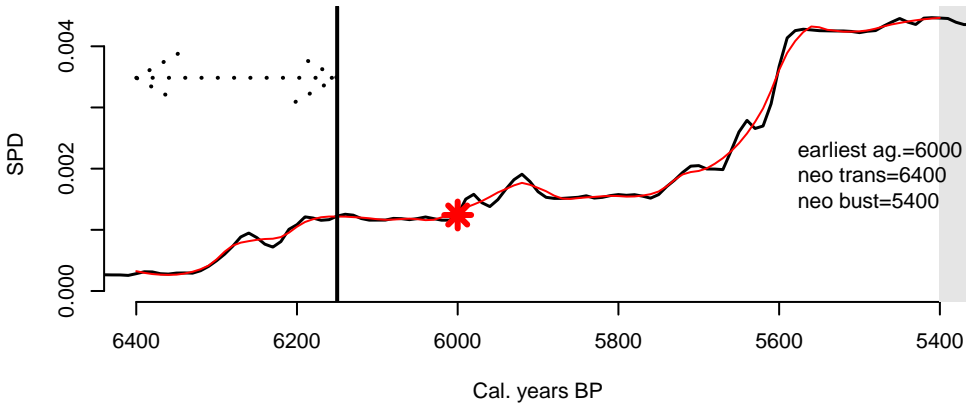
### G. Skewness



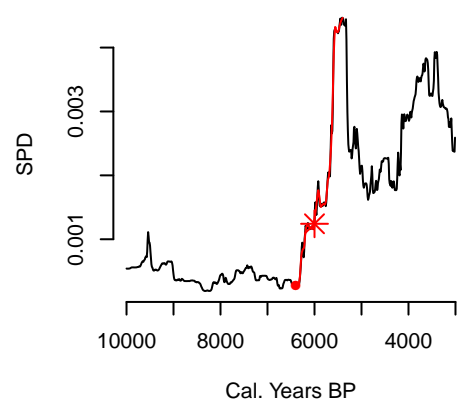
### H. SK{Tau sim}



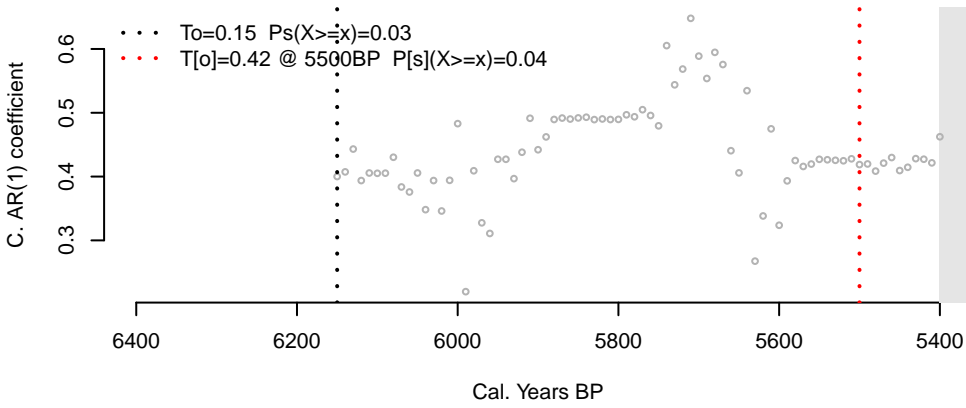
### A. Southern England (Wessex & Sussex) beginning of increase to collapse



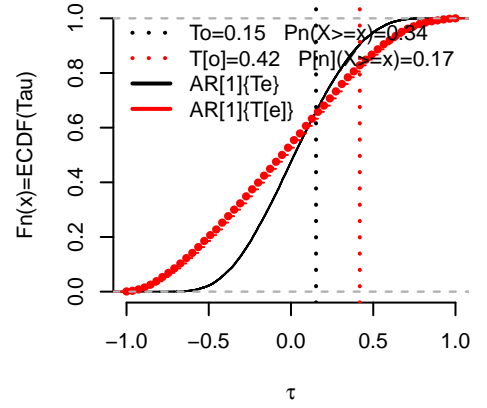
### B. Complete time series



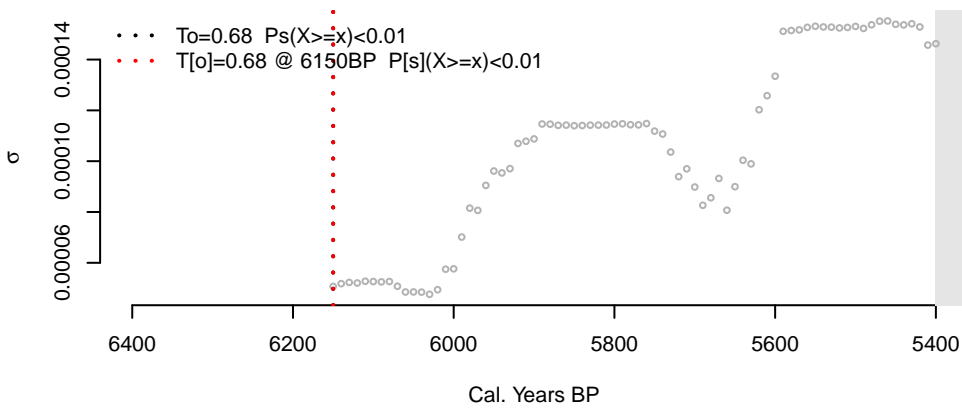
### C. AR[1]



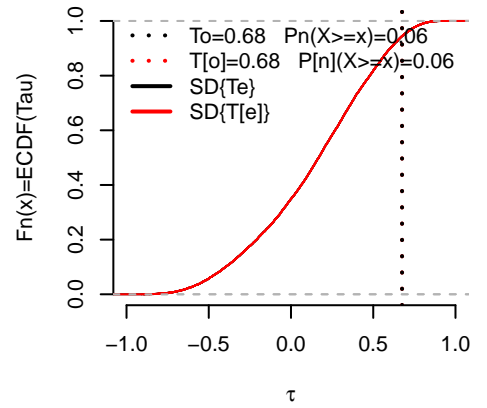
### D. AR[1]{Te}



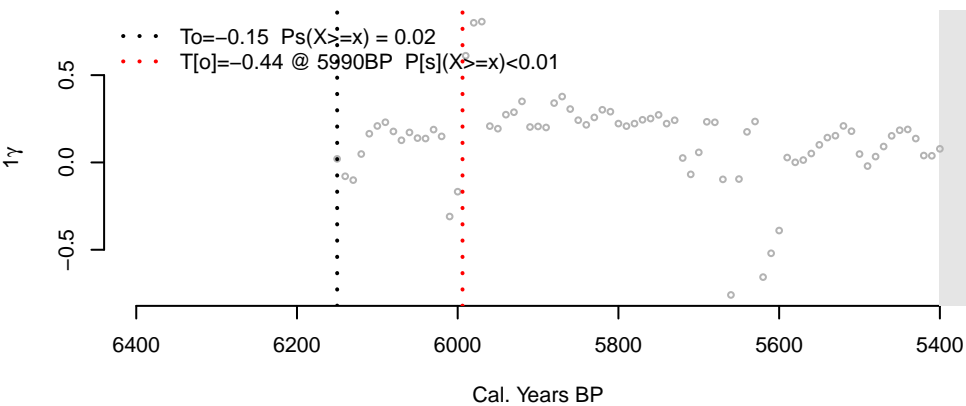
### E. Standard Deviation



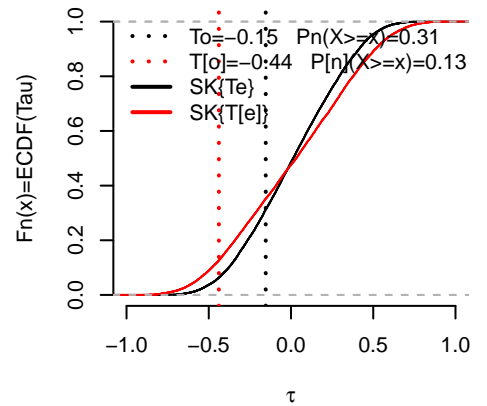
### F. SD{Te}



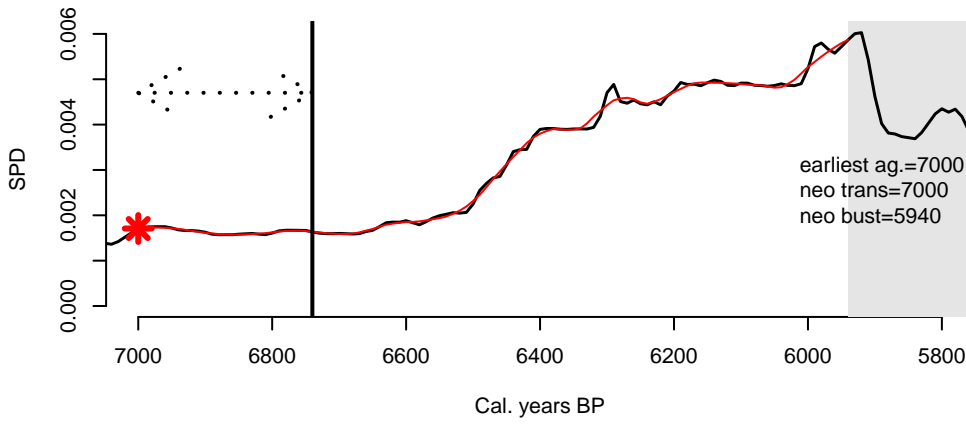
### G. Skewness



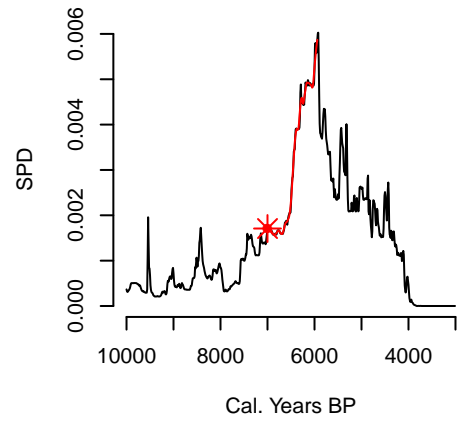
### H. SK{Tau sim}



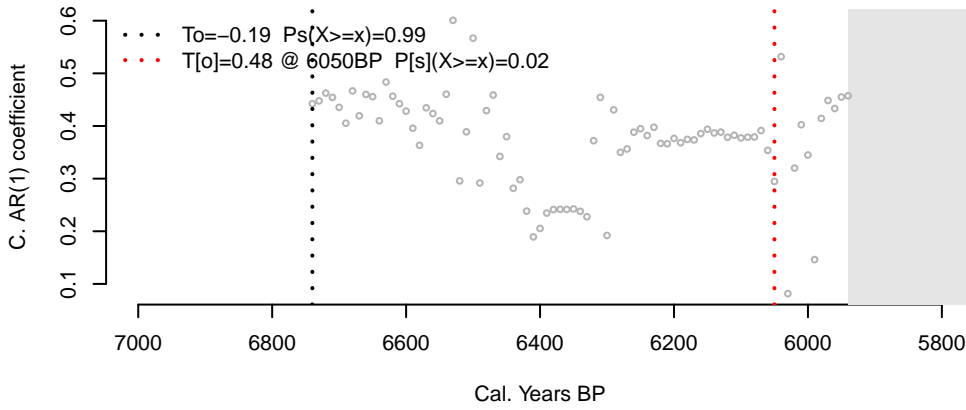
**A. Western France beginning of increase to collapse**



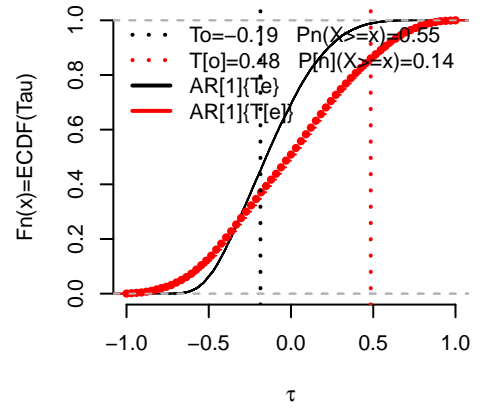
**B. Complete time series**



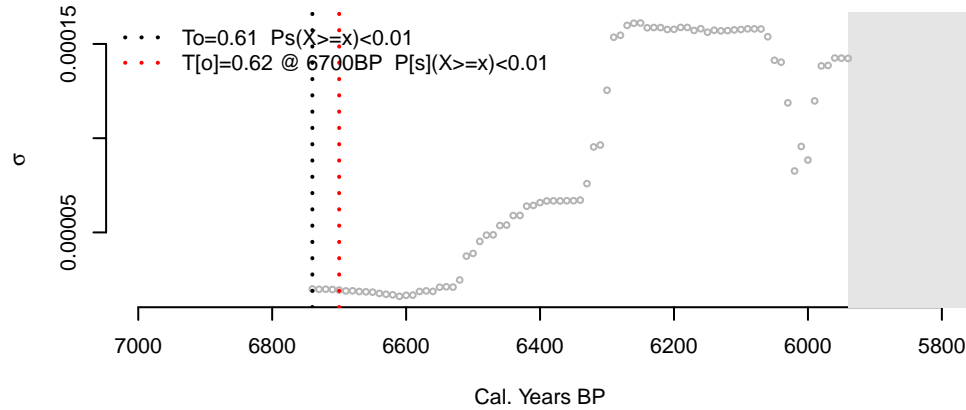
**C. AR[1]**



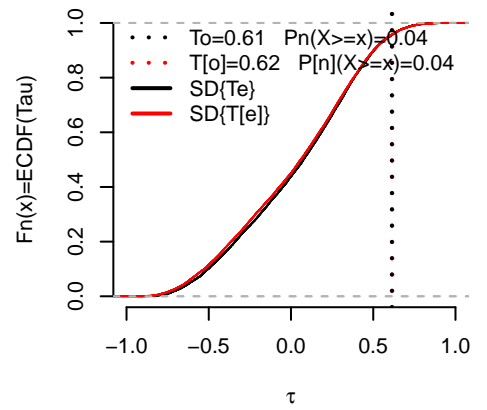
**D. AR[1]{Te}**



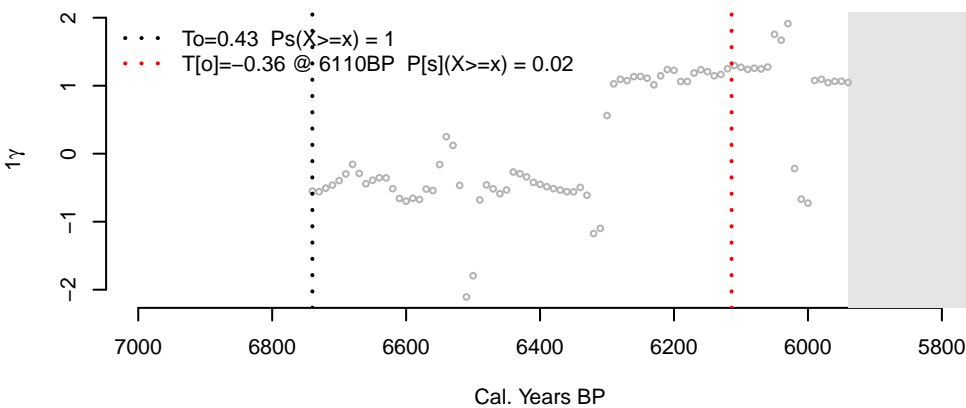
**E. Standard Deviation**



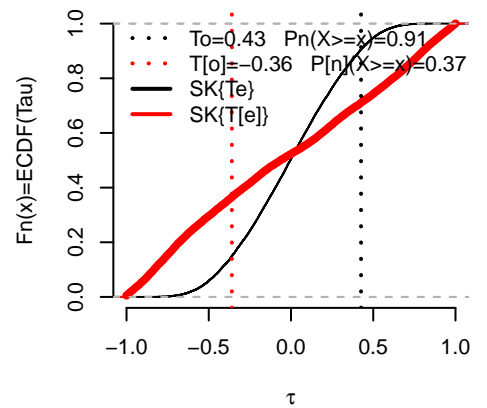
**F. SD{Te}**



**G. Skewness**

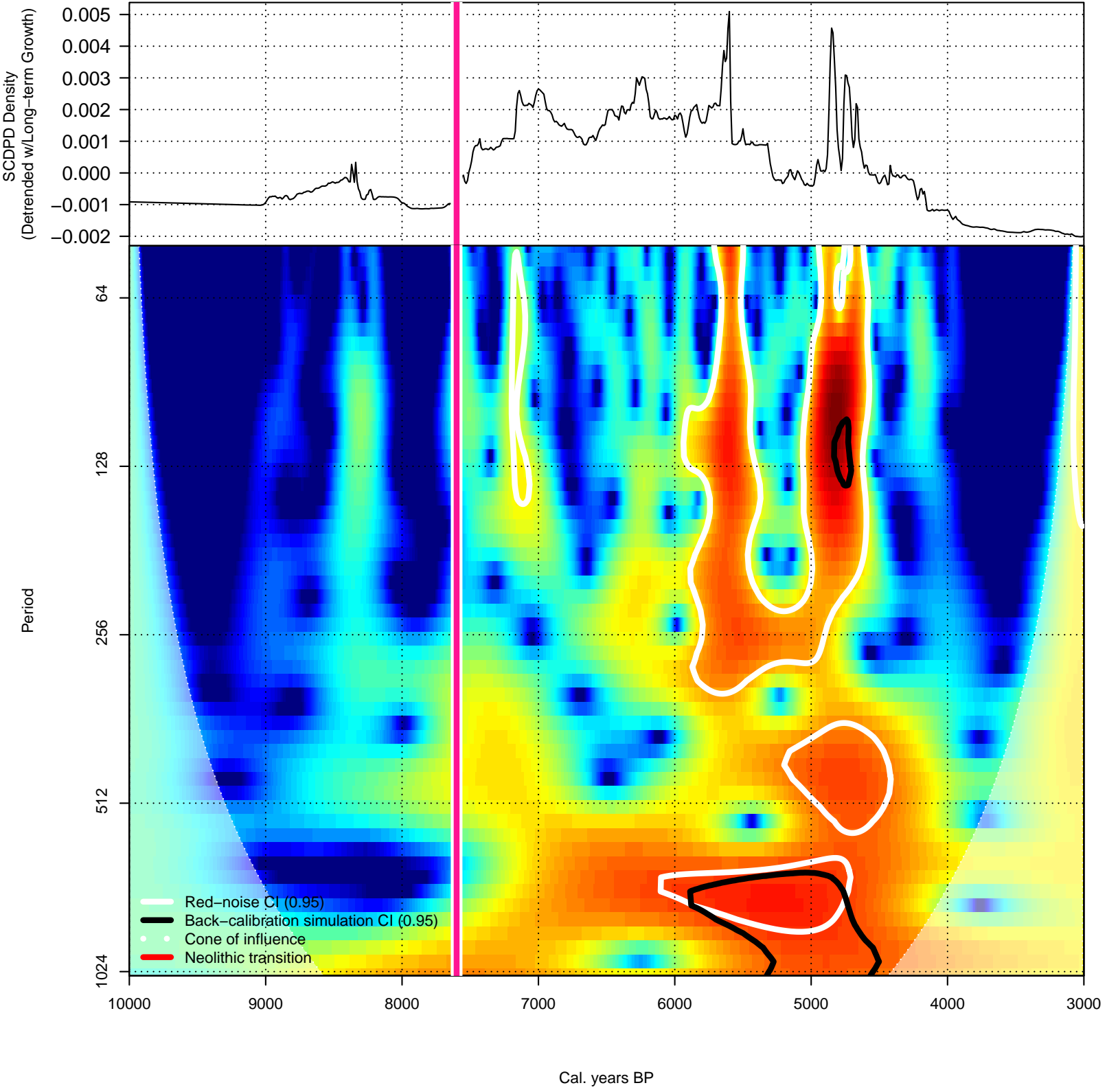


**H. SK{Tau sim}**

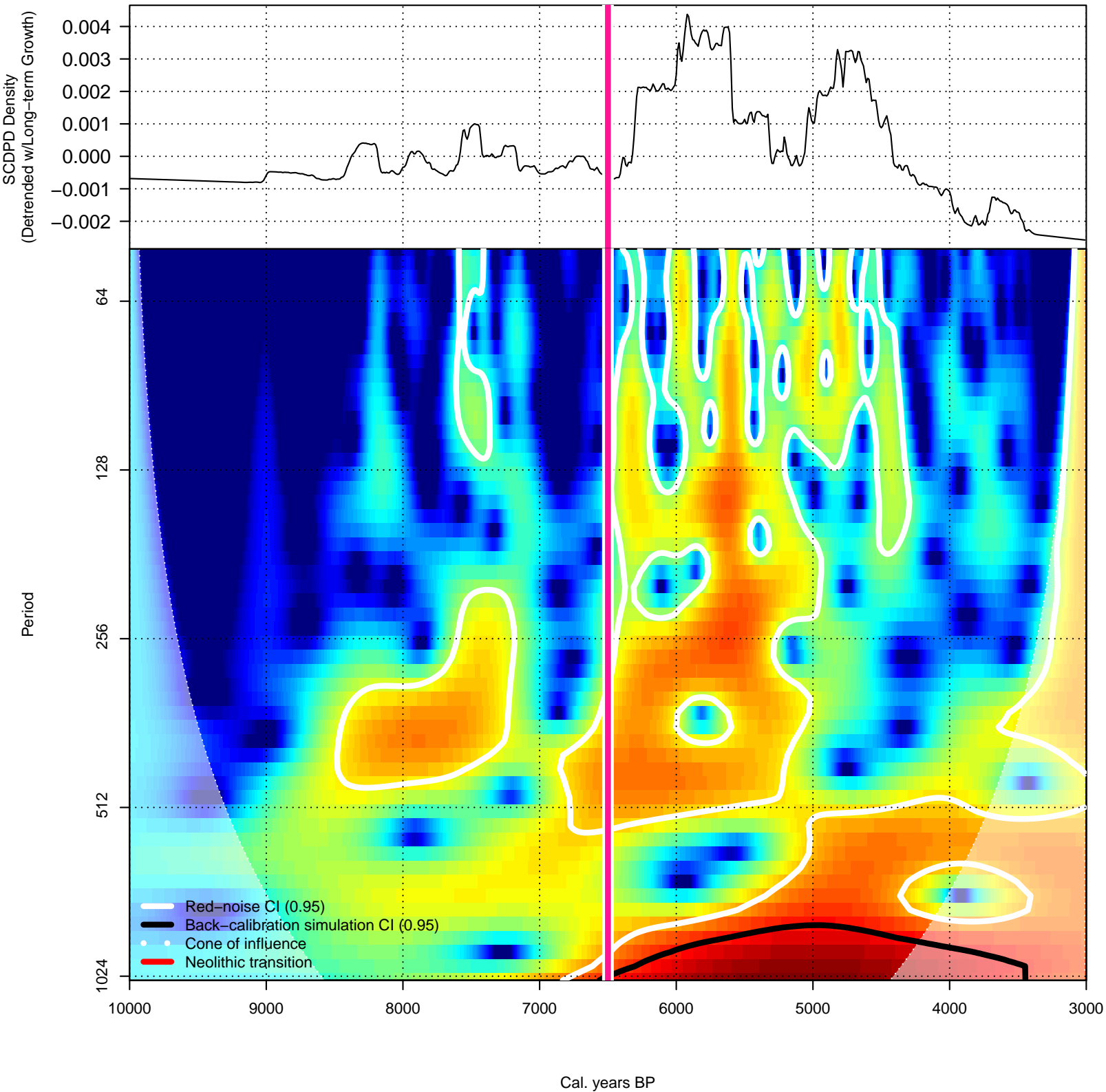


**Wavelet analysis for all regions.**

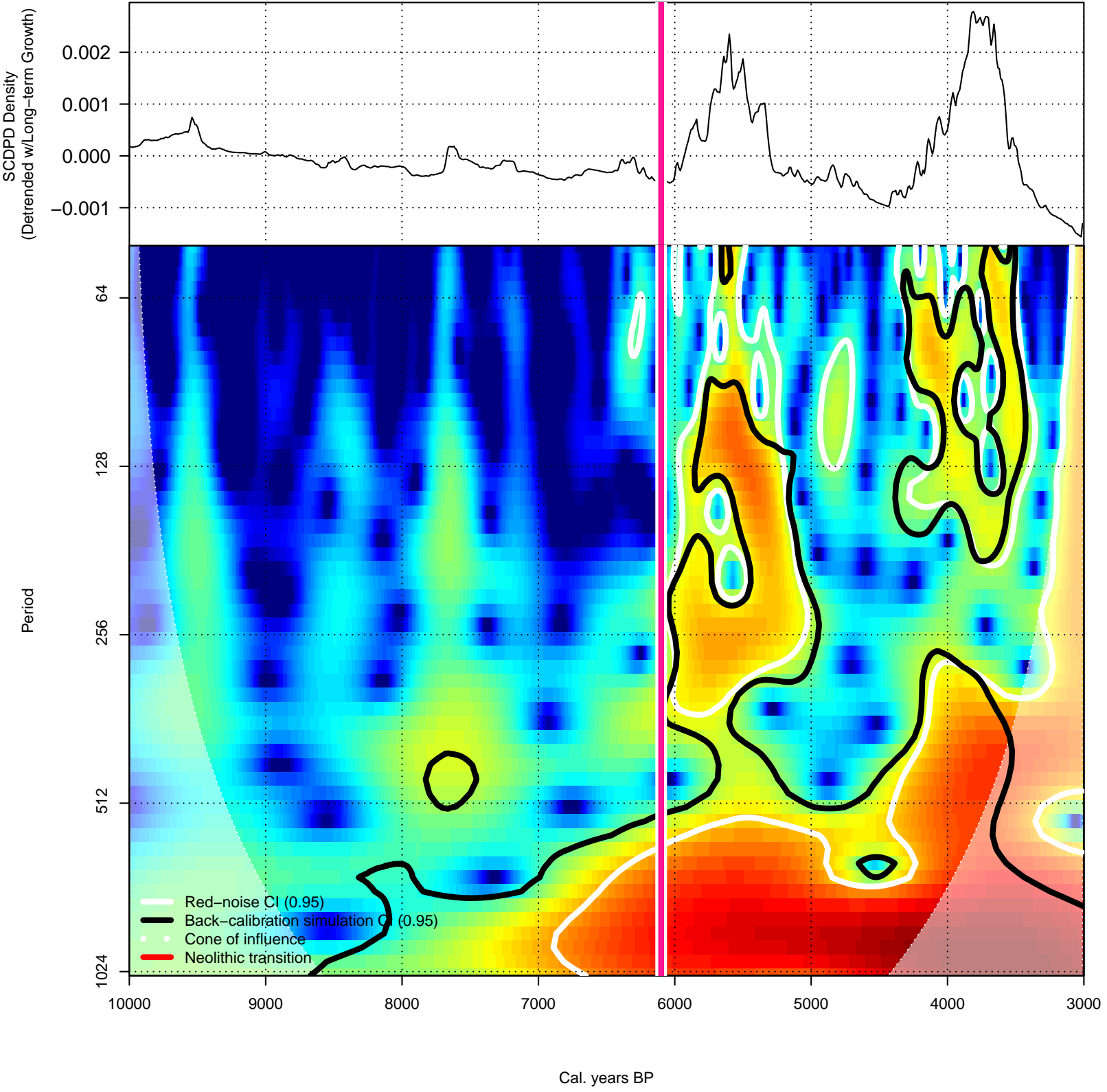
### Southern Germany



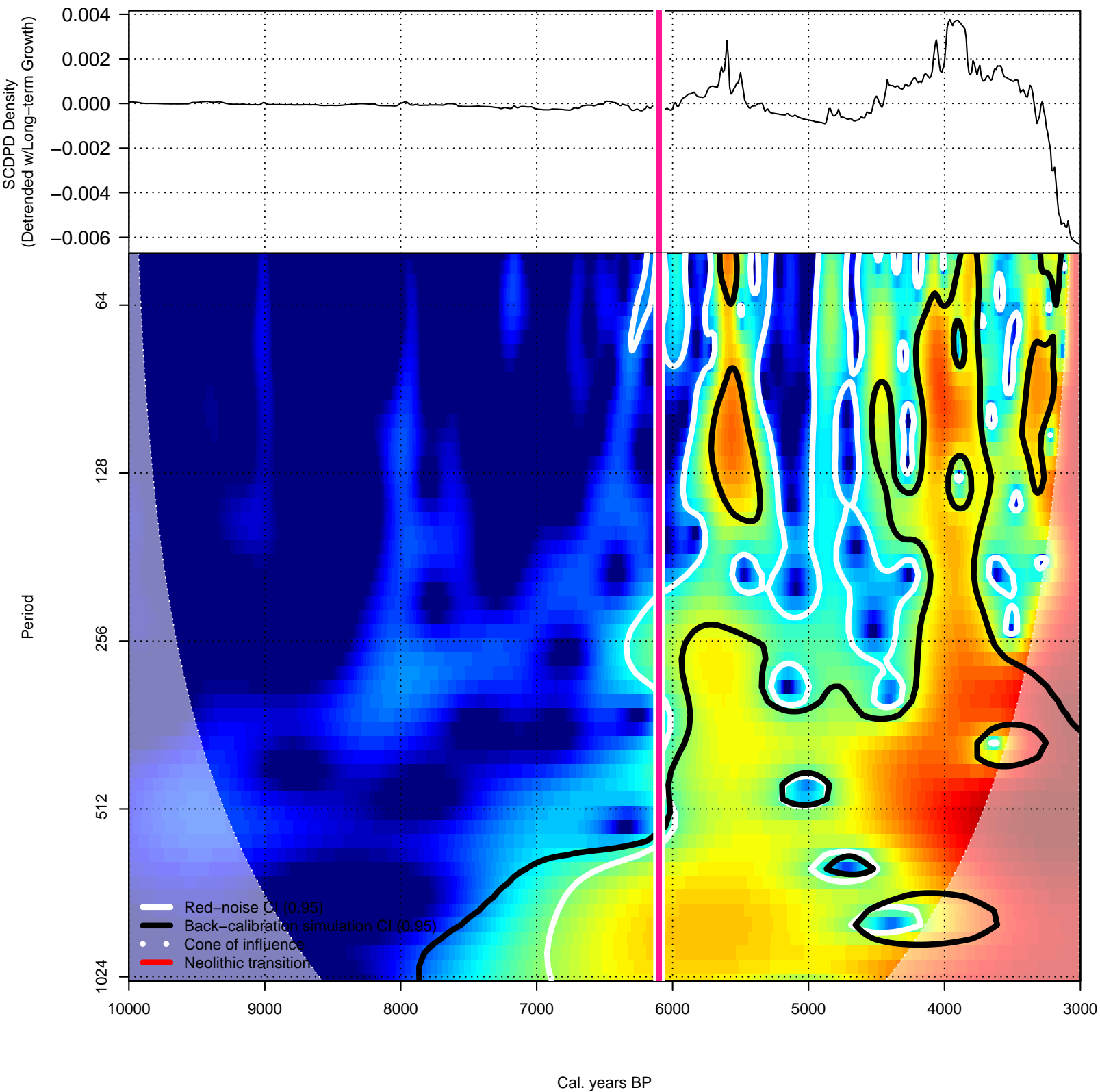
# Eastern Switzerland



### England and Wales (w/o Wessex & Sussex)

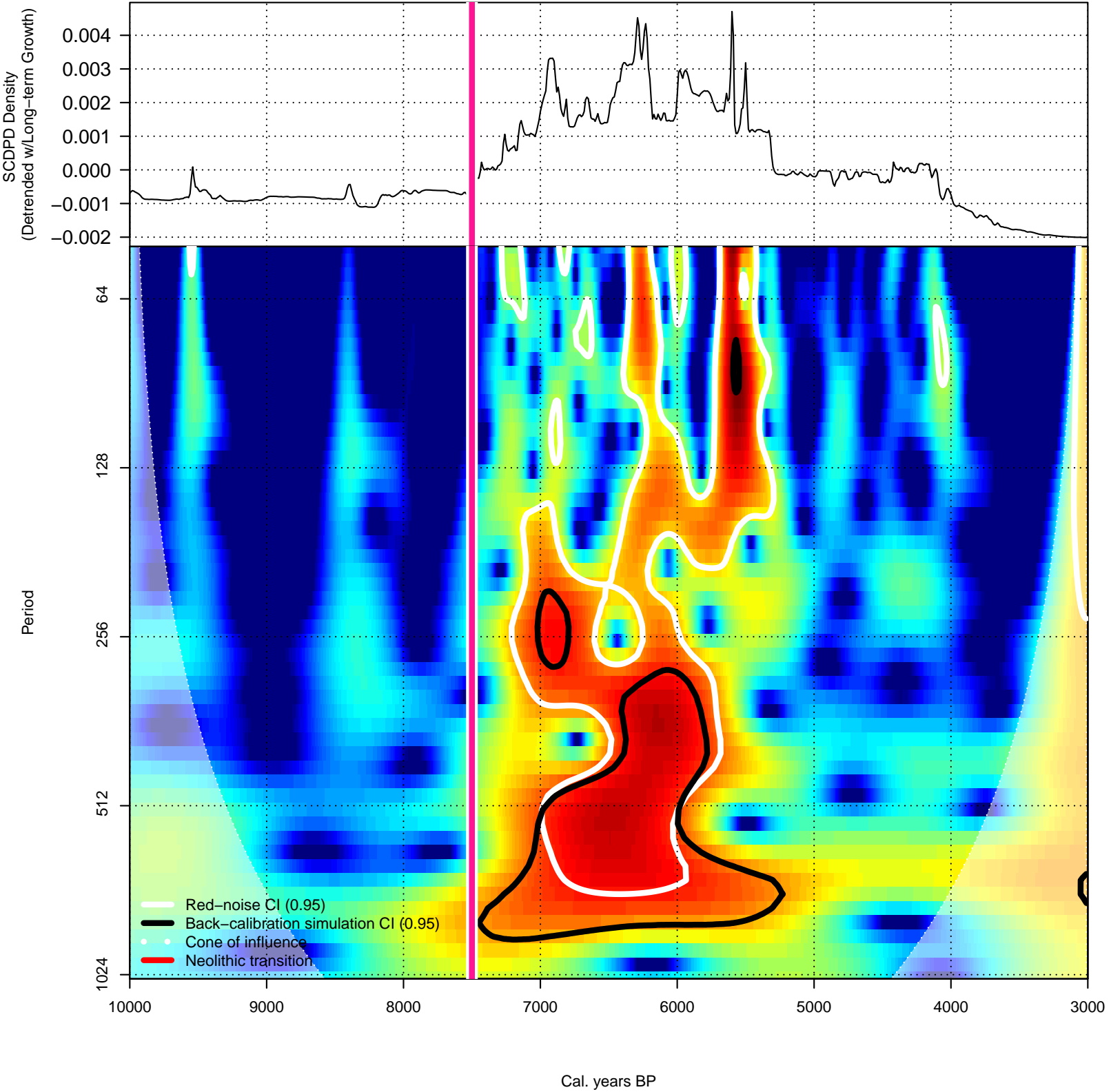


# Ireland

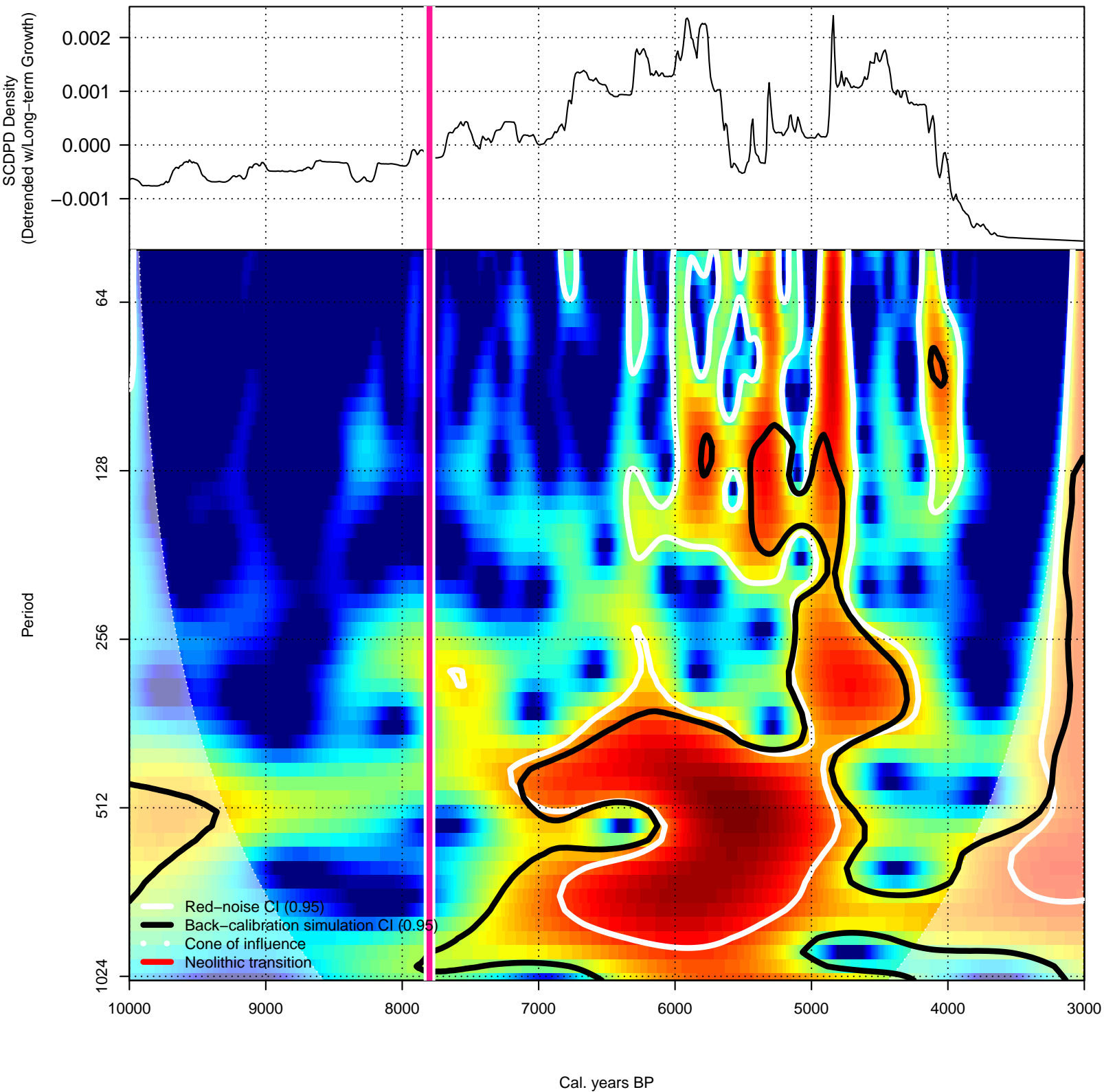




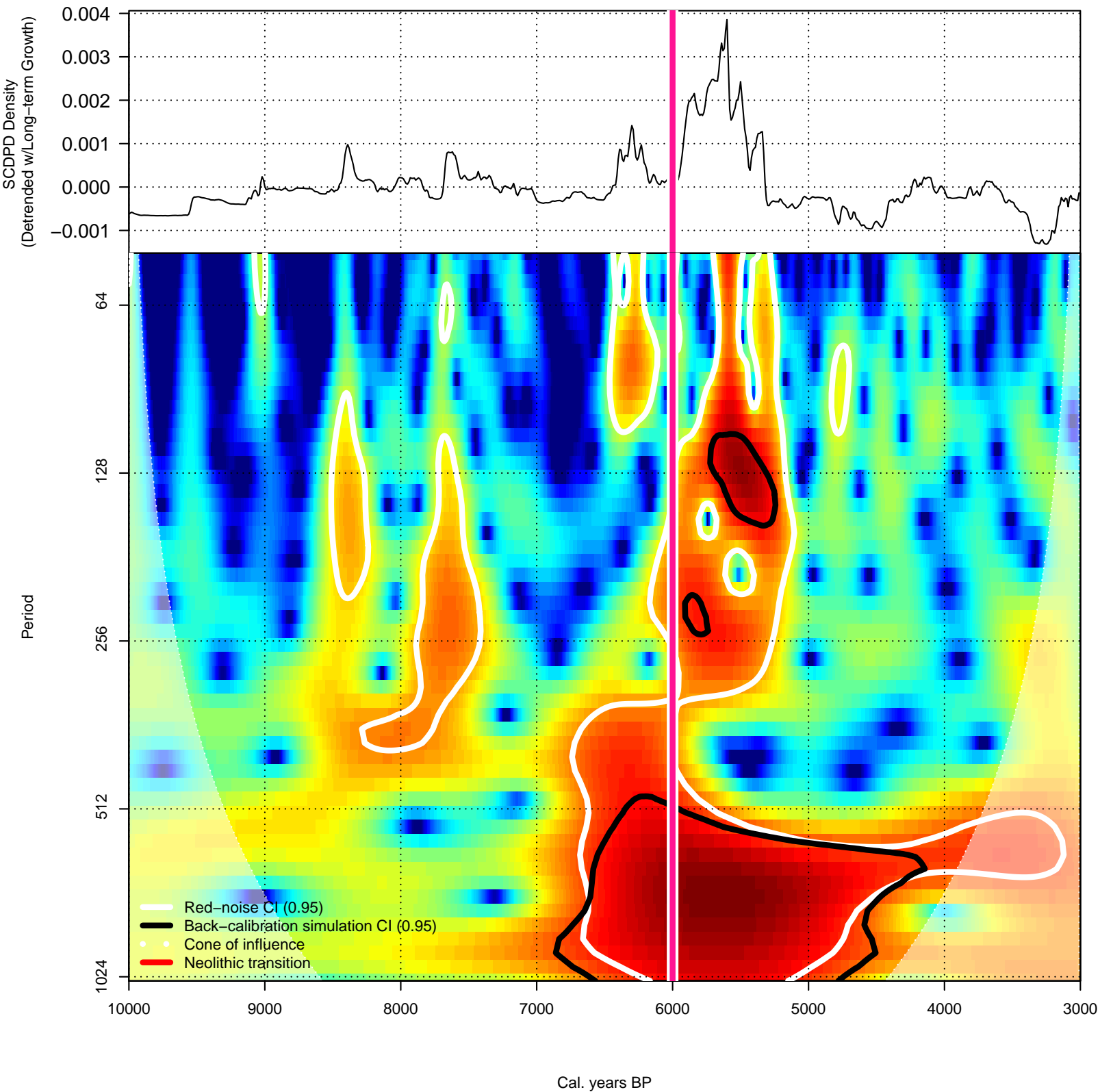
# Paris Basin



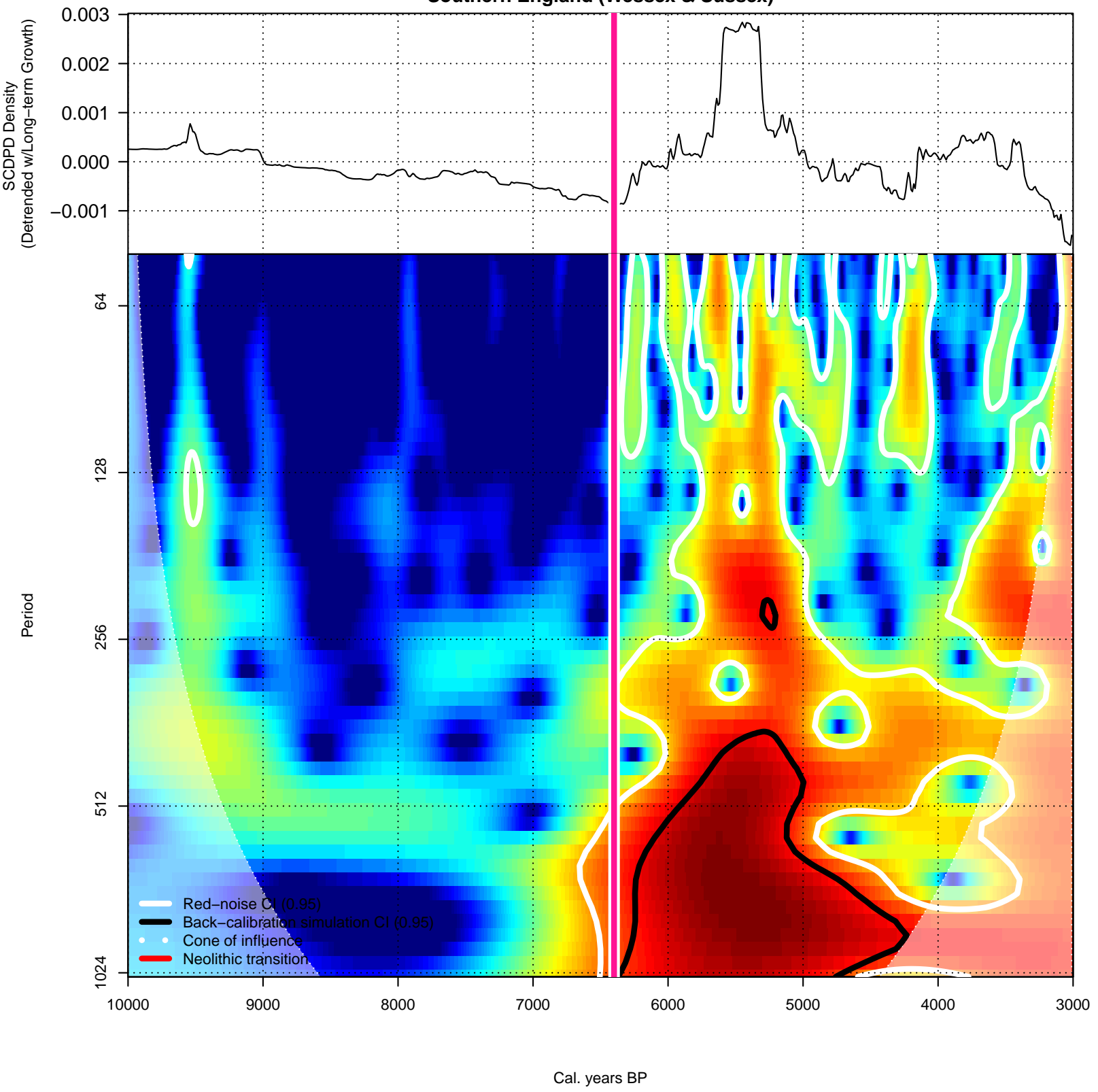
# Rhone-Languedoc



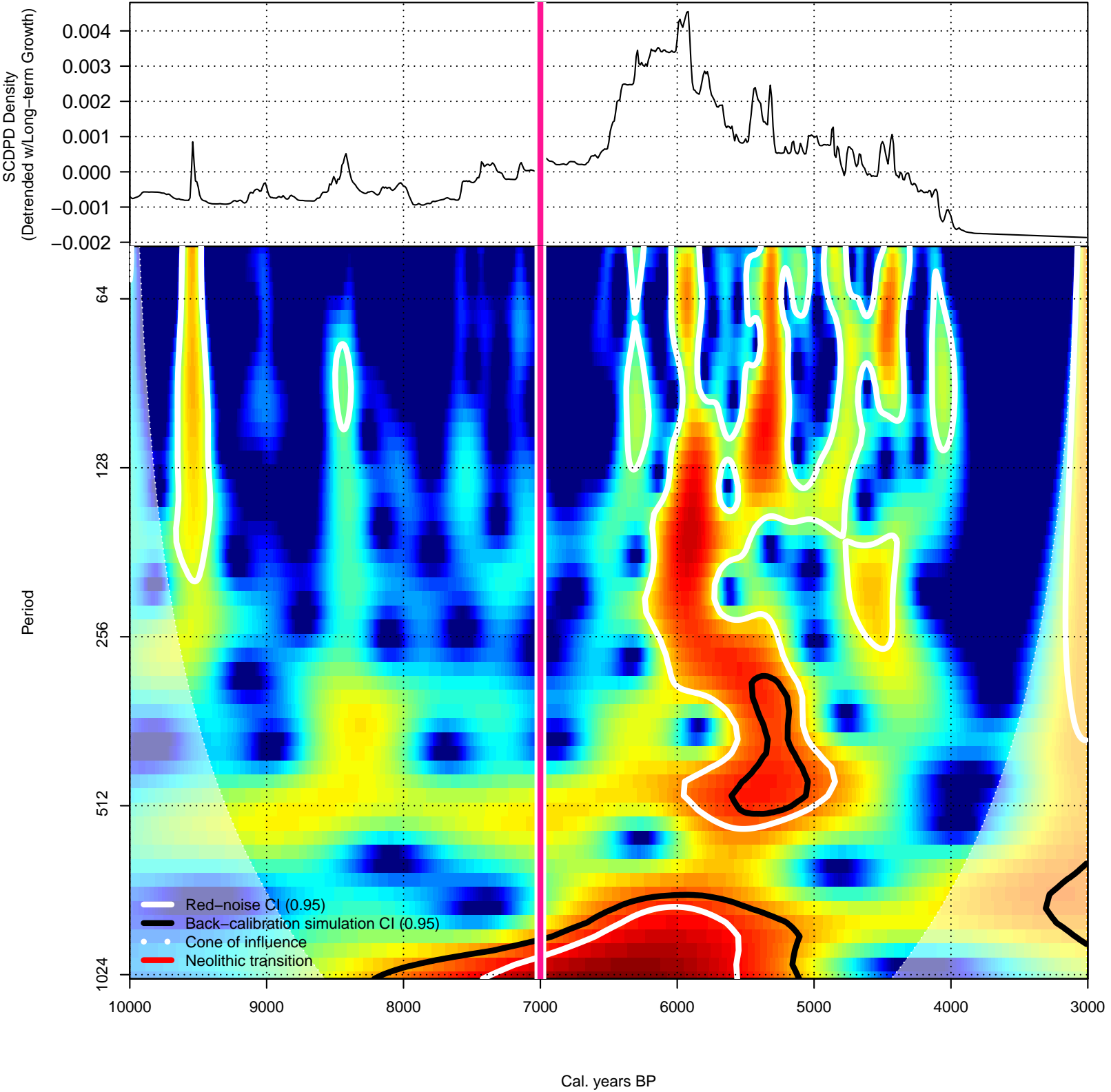
# Scotland



### Southern England (Wessex & Sussex)

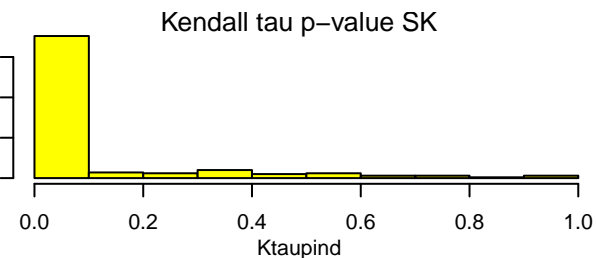
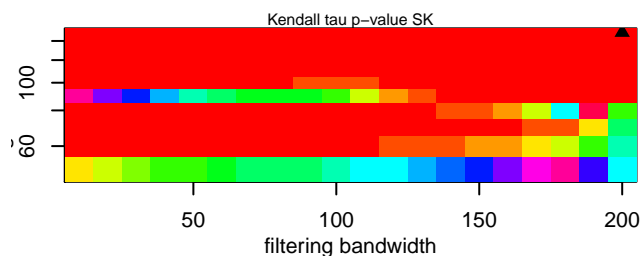
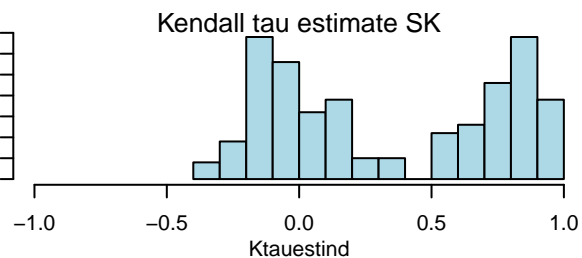
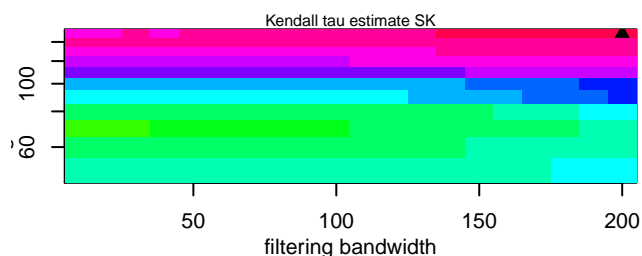
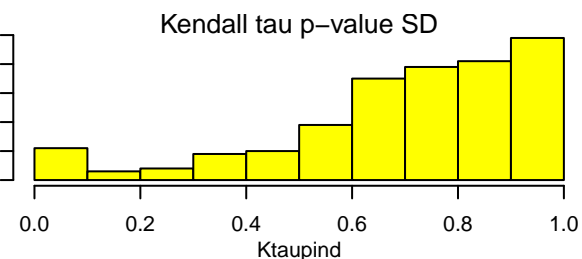
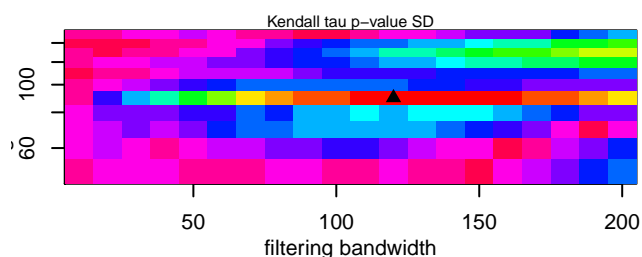
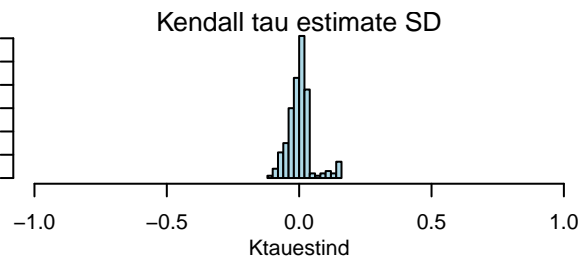
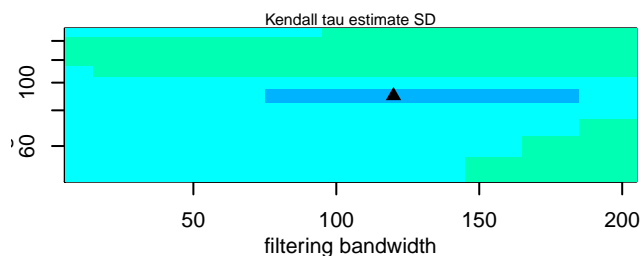
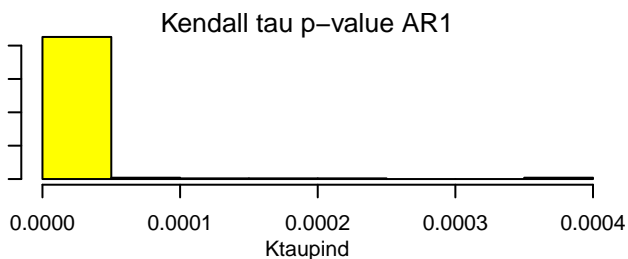
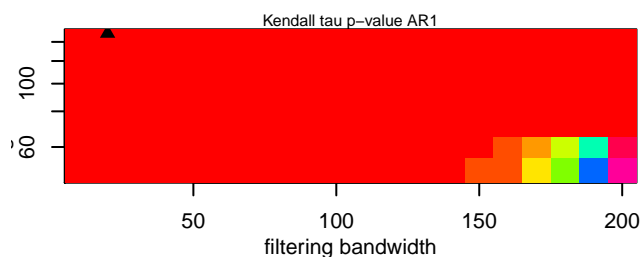
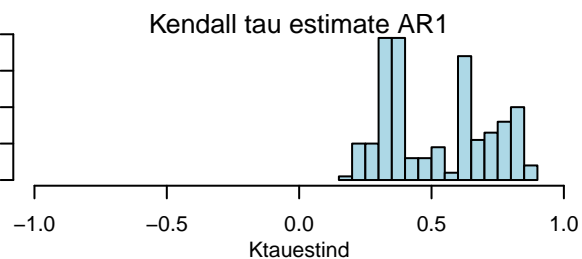
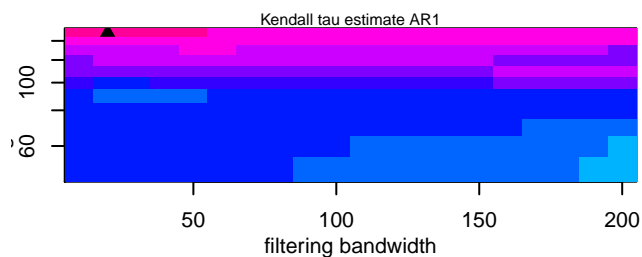


# Western France

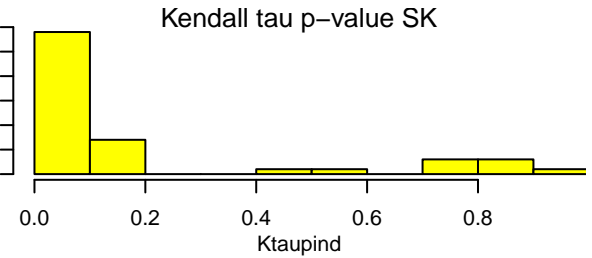
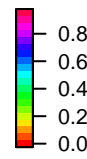
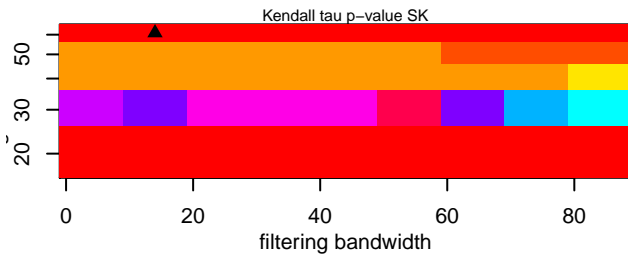
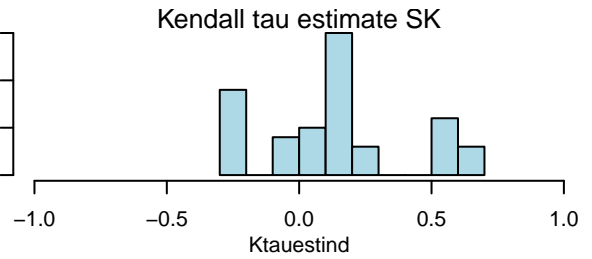
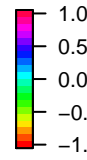
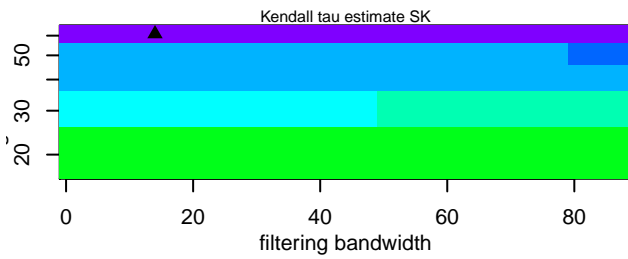
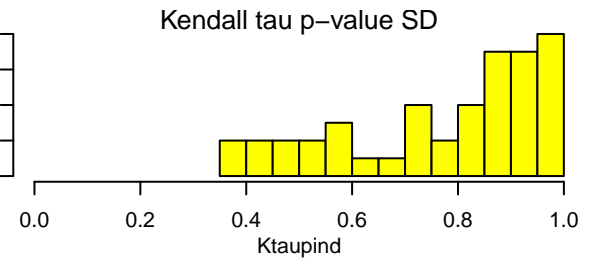
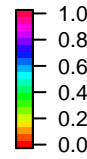
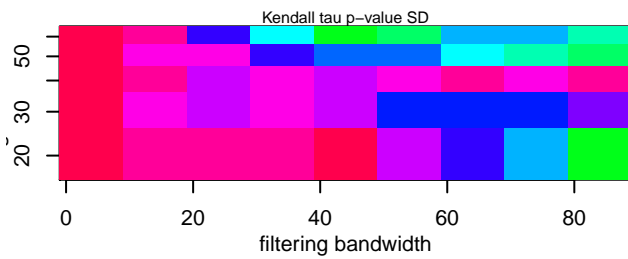
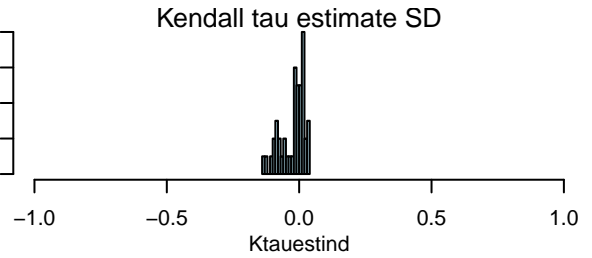
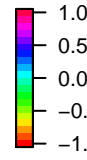
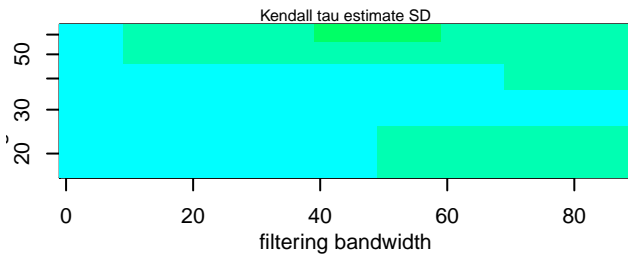
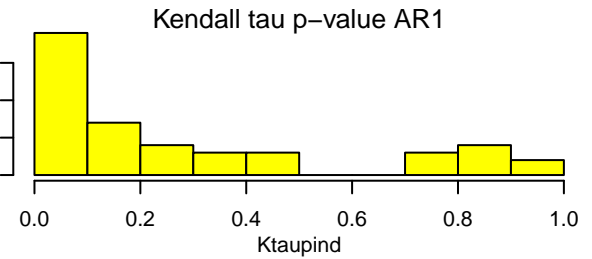
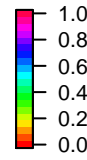
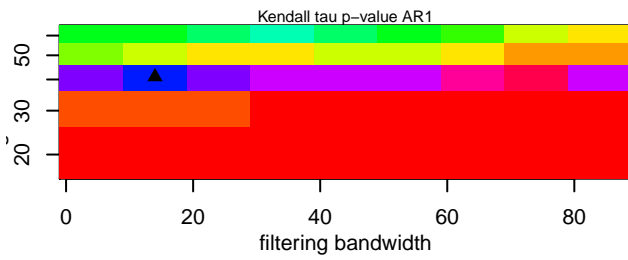
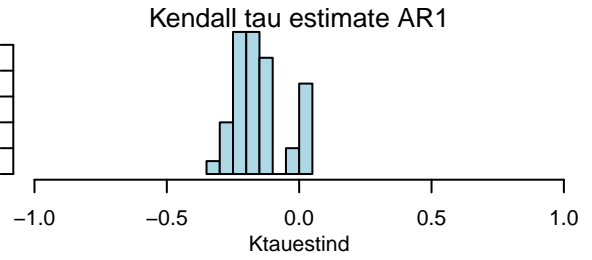
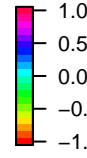
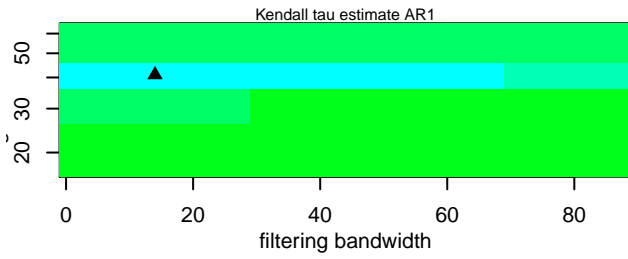


**EWS sensitivity analysis for all regions.**

# Southern Germany

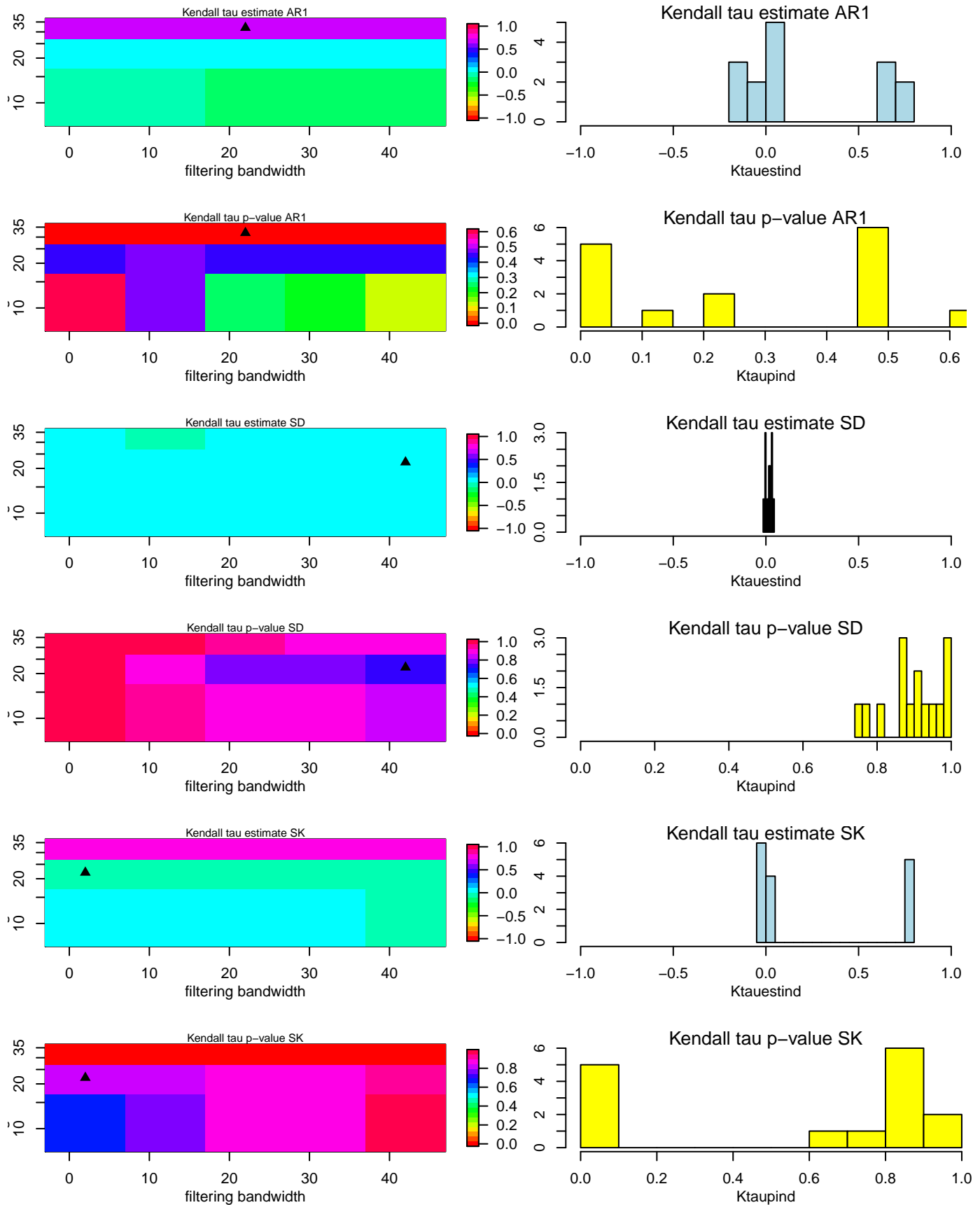


# Eastern Switzerland

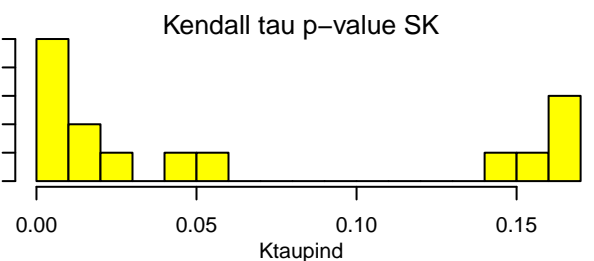
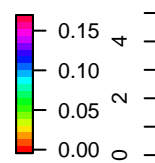
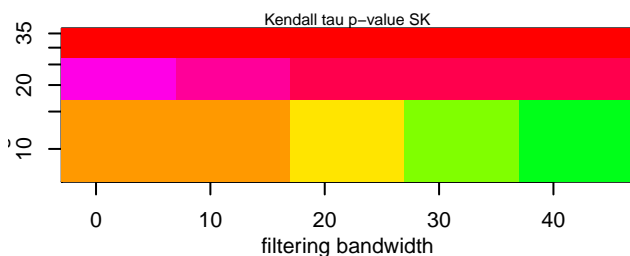
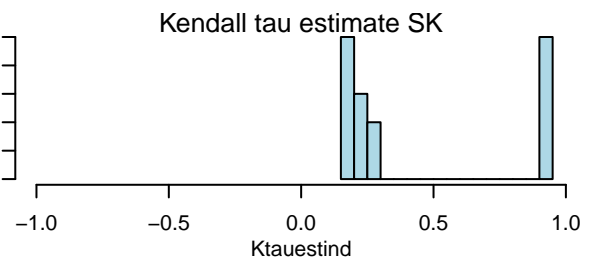
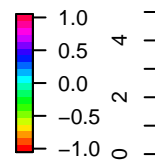
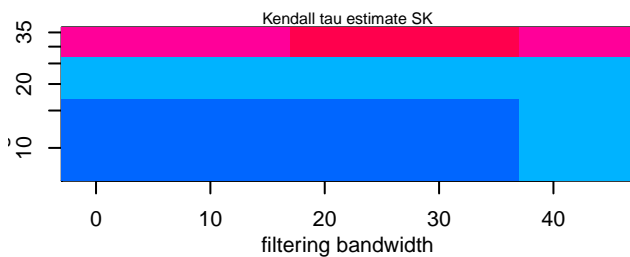
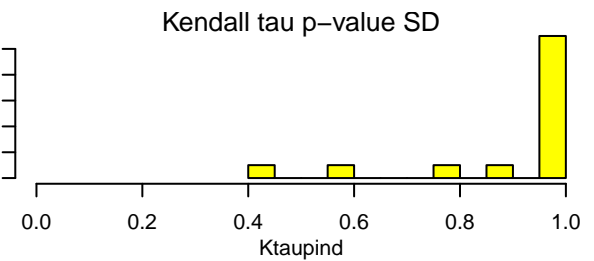
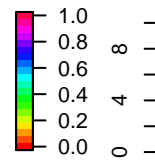
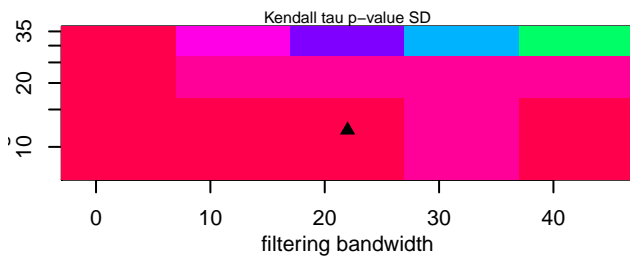
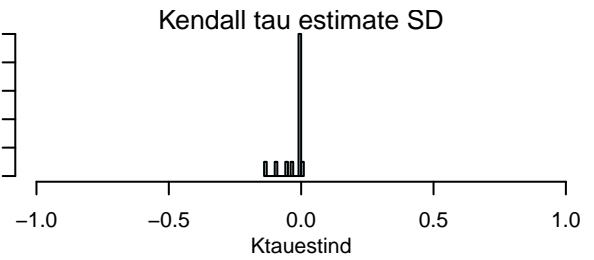
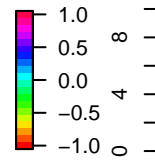
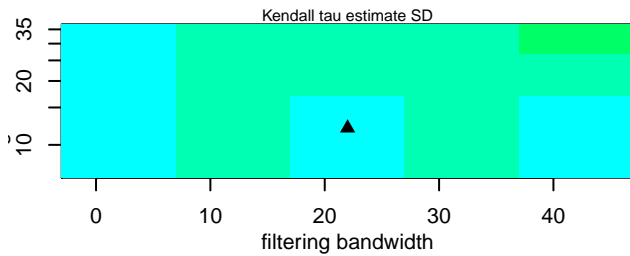
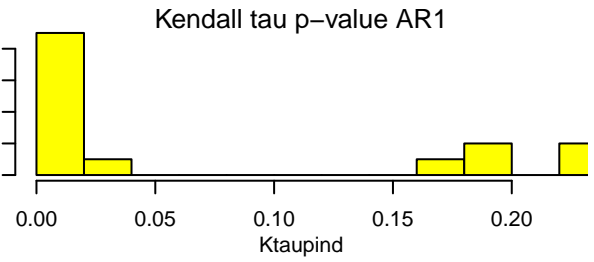
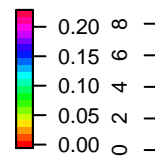
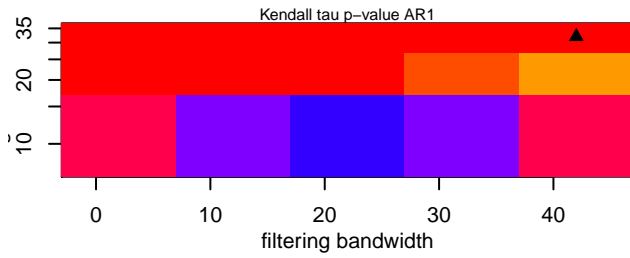
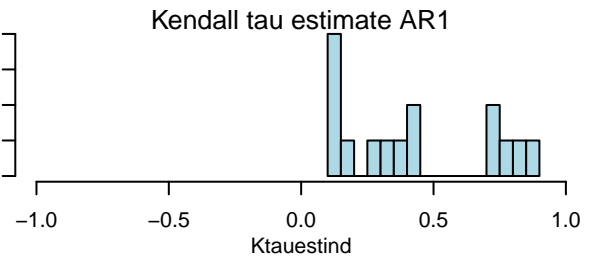
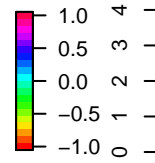
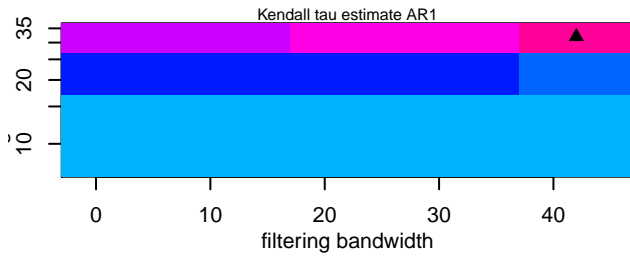




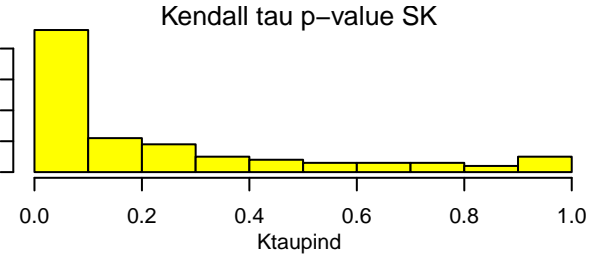
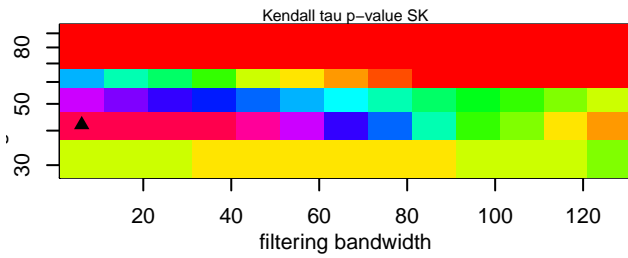
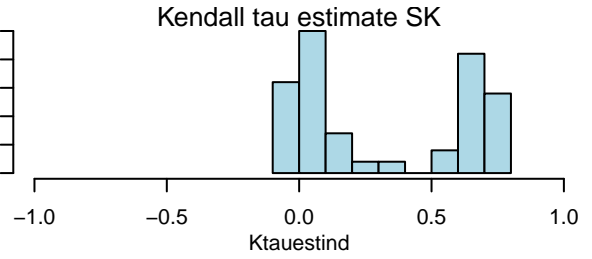
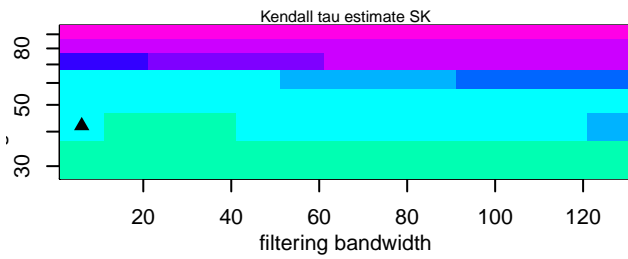
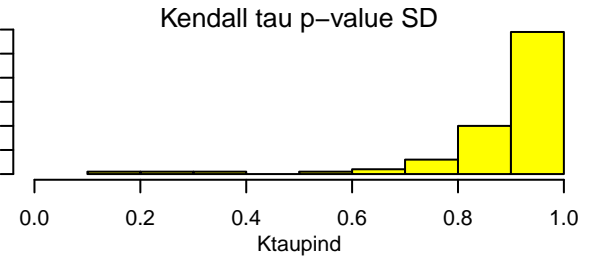
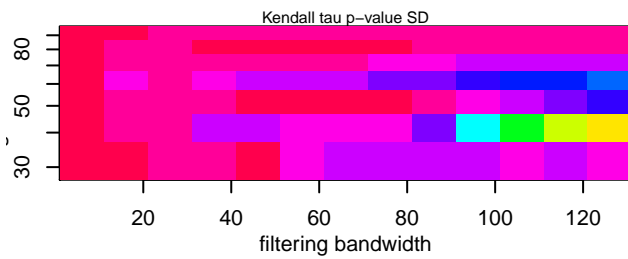
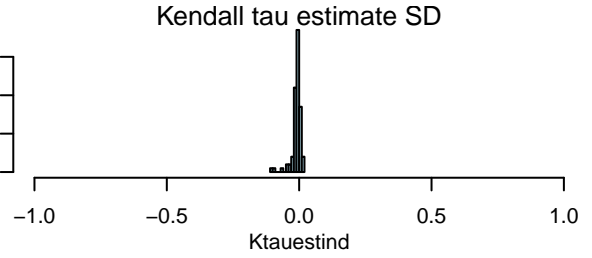
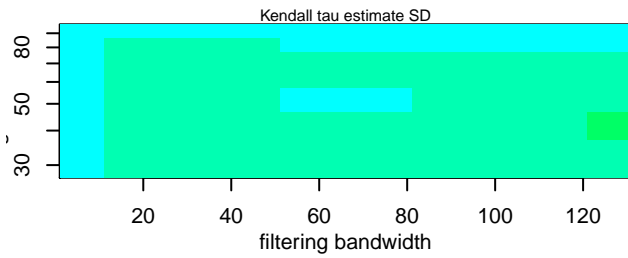
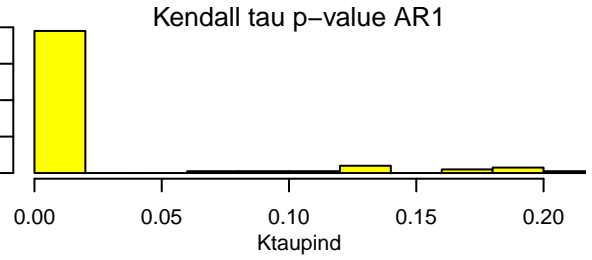
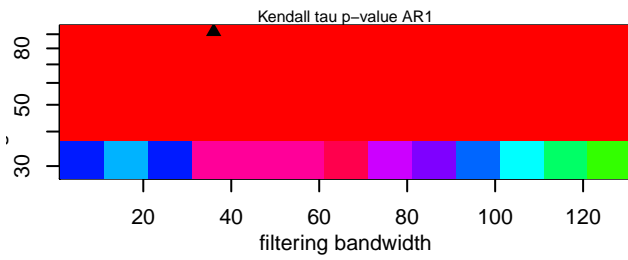
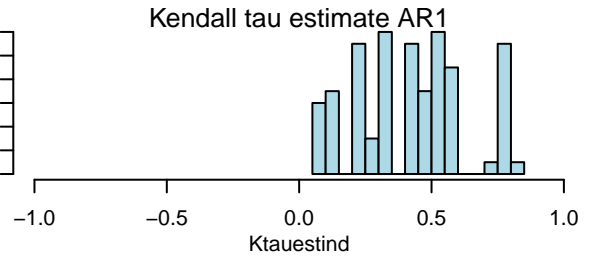
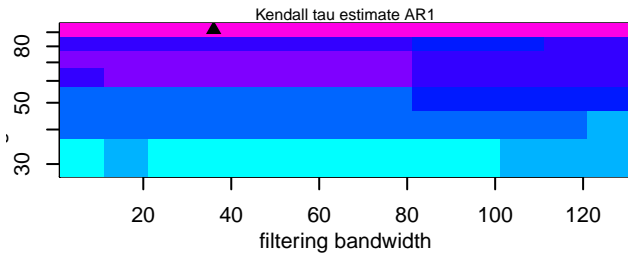
# England and Wales (w/o Wessex & Sussex)



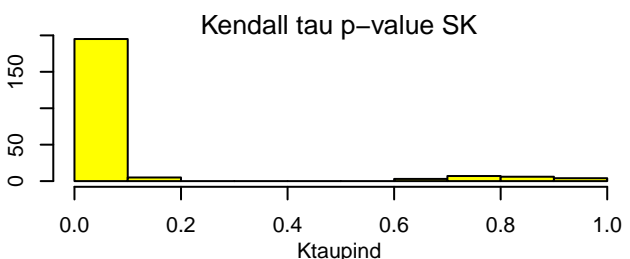
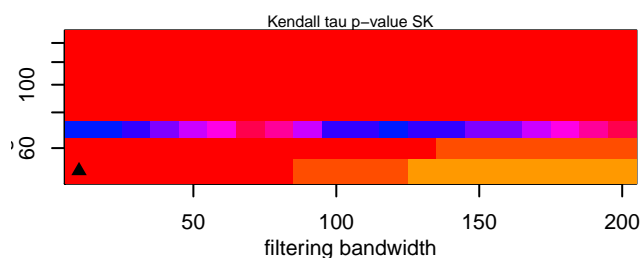
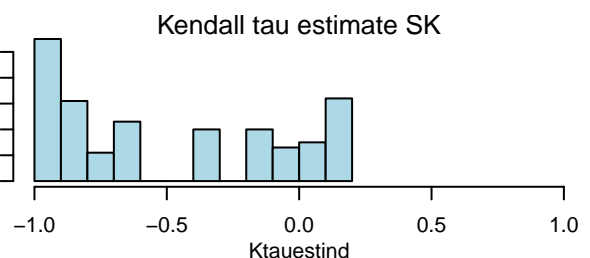
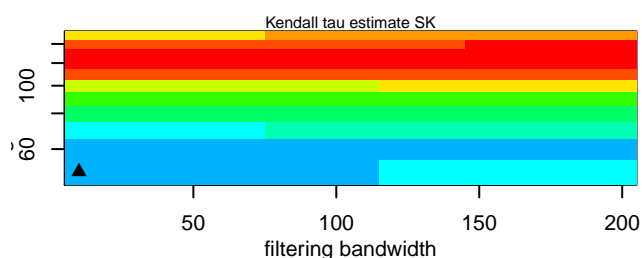
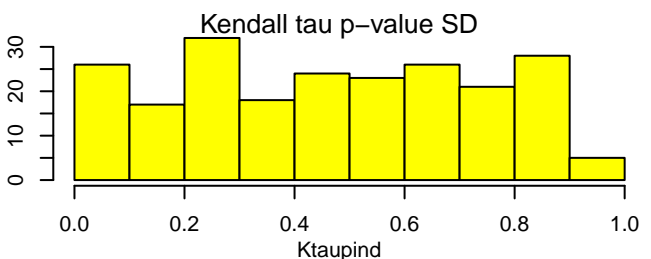
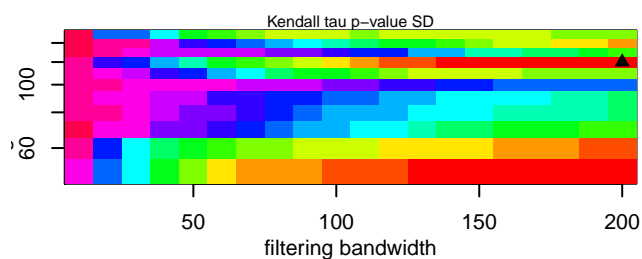
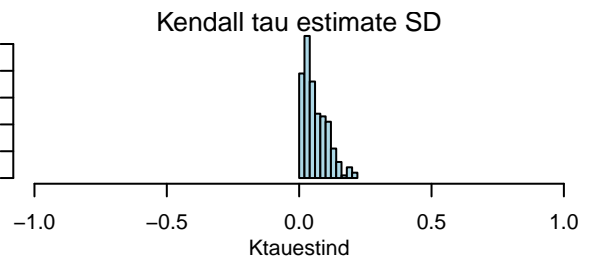
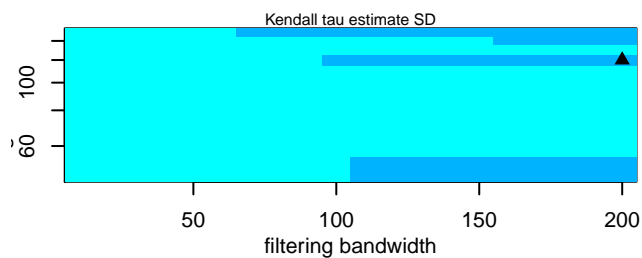
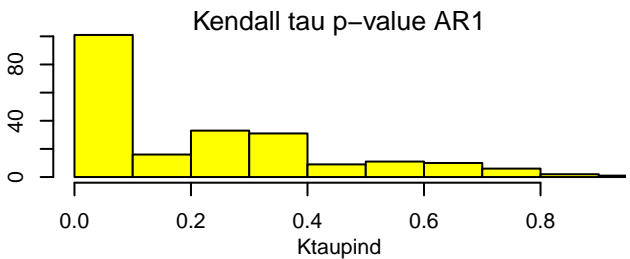
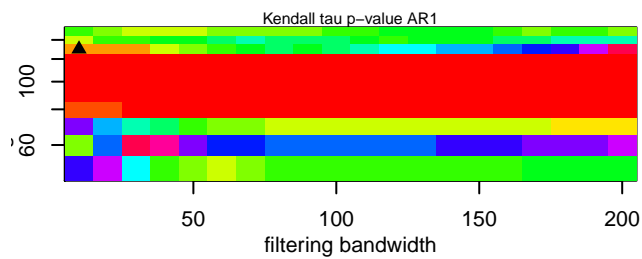
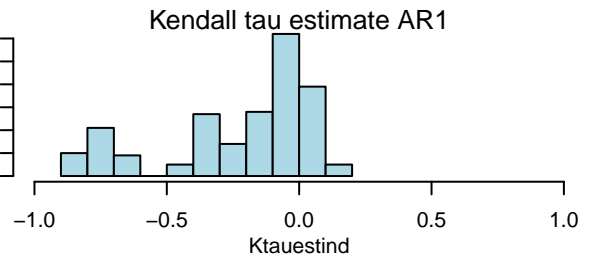
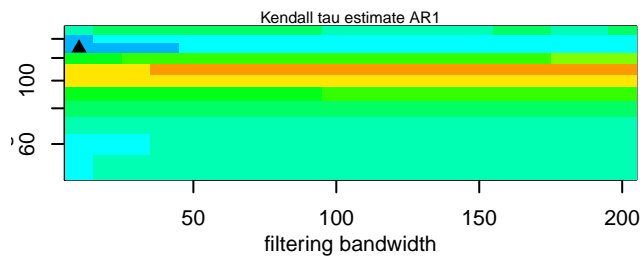
# Ireland



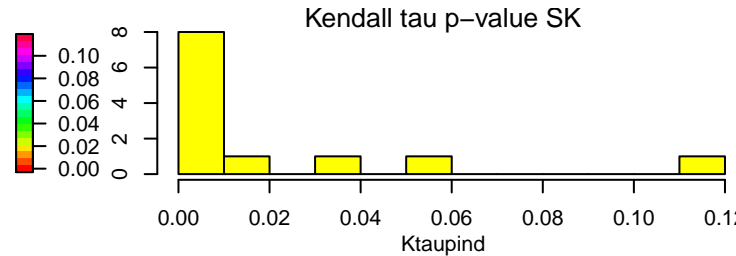
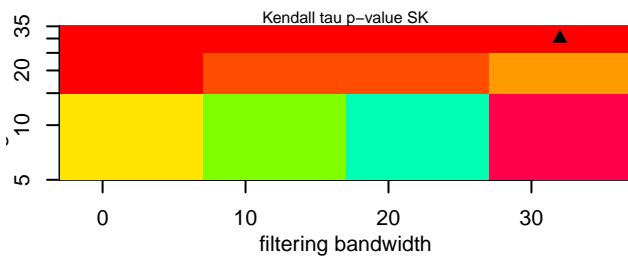
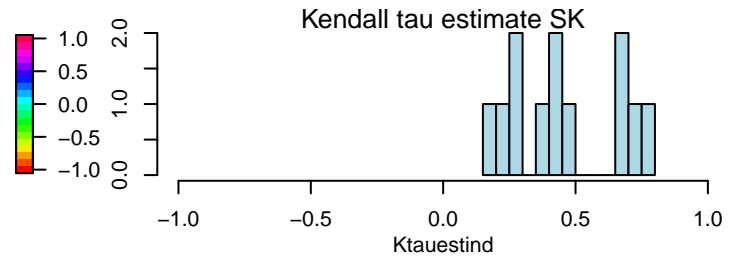
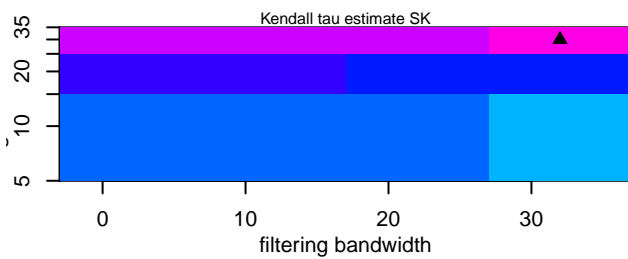
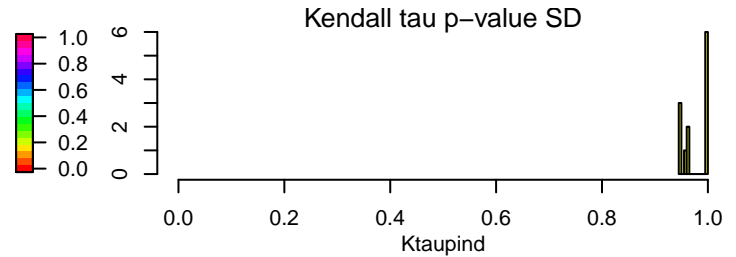
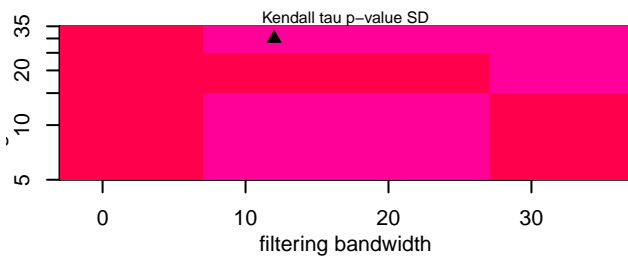
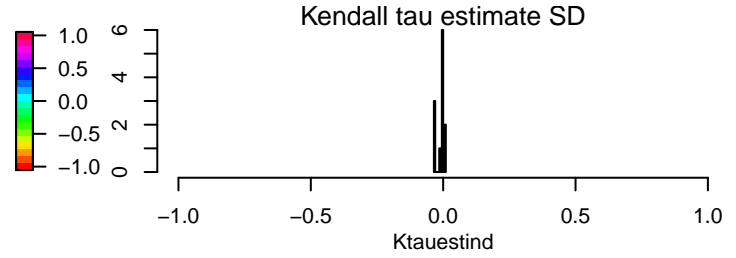
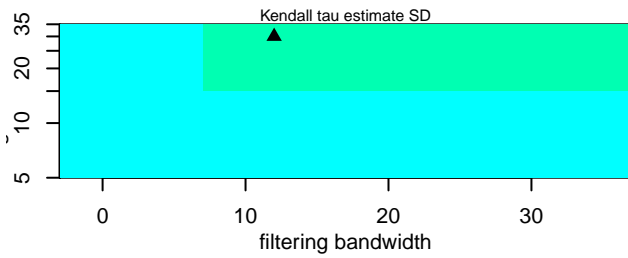
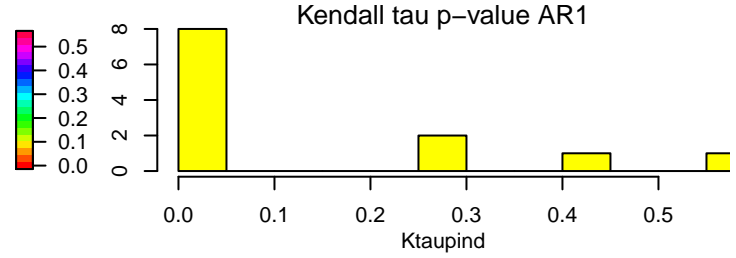
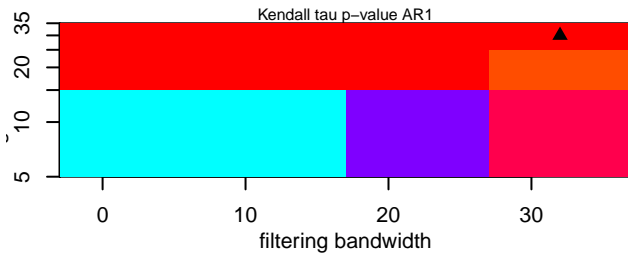
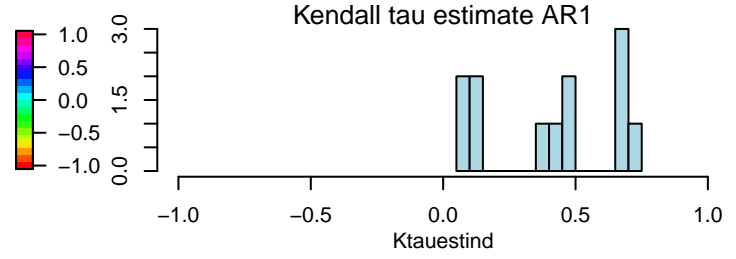
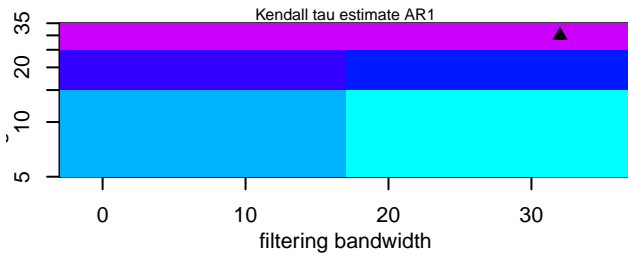
# Paris Basin



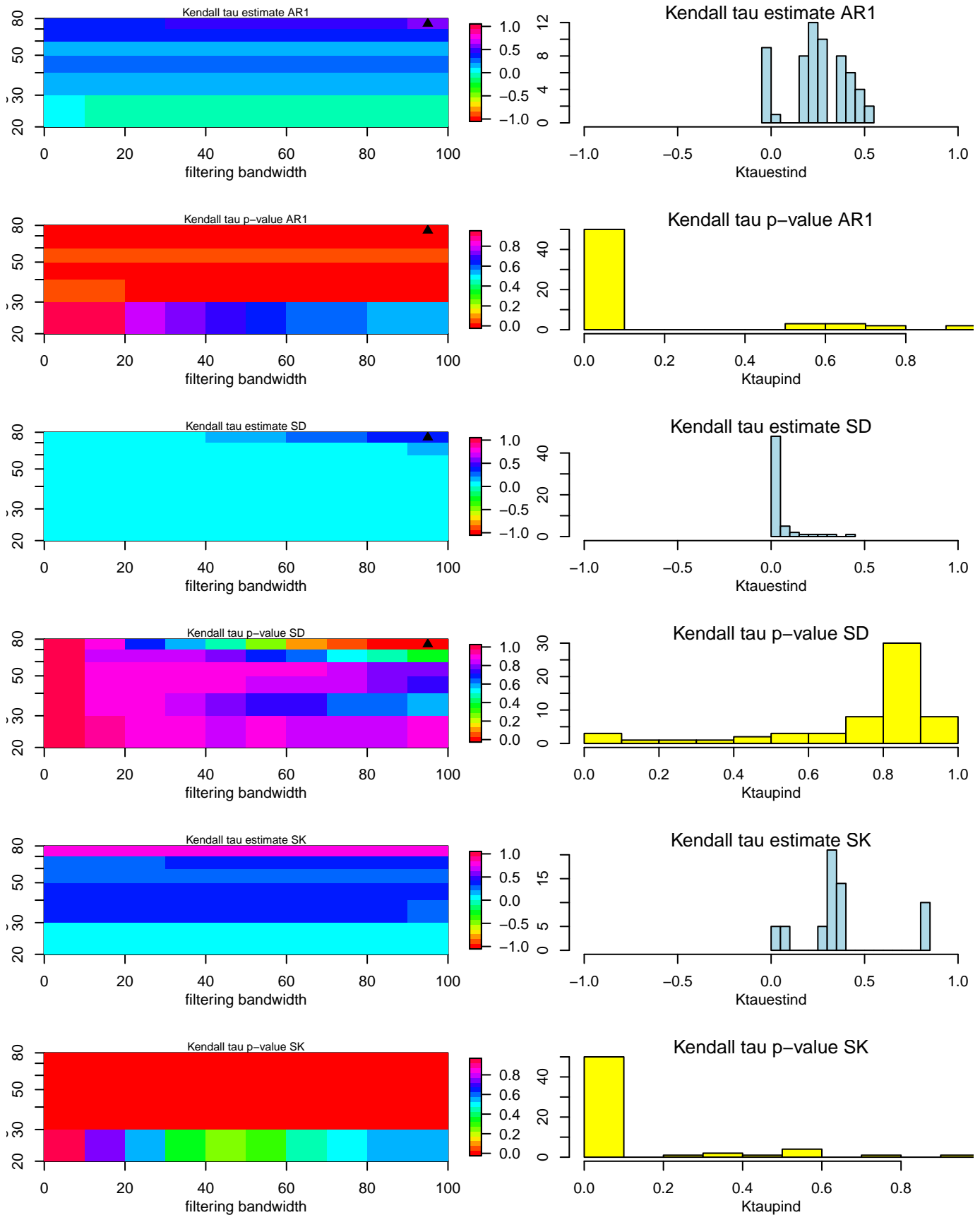
# Rhone-Languedoc



# Scotland



# Southern England (Wessex & Sussex)



# Western France

