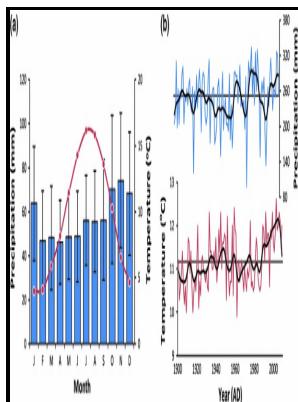


# Tree-climate relationships and dendroclimatological reconstruction in the British Isles.

University of East Anglia - Climate response of oak (*Quercus spp.*), an evidence of a bioclimatic boundary induced by the Carpathians



Description: -

- Tree-climate relationships and dendroclimatological reconstruction in the British Isles.
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Notes: Thesis (Ph.D.) - University of East Anglia, School of Environmental Sciences, Climatic Research Unit 1984.

This edition was published in 1984



Filesize: 25.14 MB

Tags: #Climate #response #of #oak #(Quercus #spp.), #an #evidence #of #a #bioclimatic #boundary #induced #by #the #Carpathians

**Forest type and height are important in shaping the altitudinal change of radial growth response to climate change**

Note that only the period 1921—2010 was used for analysis.

## CSIRO PUBLISHING

The easternmost sampling site U09 of a large study network was in eastern Hungary, where 12 tree-ring samples covering the period 1847–2001 were analyzed.

## CSIRO PUBLISHING

Moving correlation analysis was conducted with a 1 year time-step. In total, 276 cores from 186 trees were cross-dated, with a total of 32,109 measured rings. Tree-ring  $\delta^{13}\text{C}$ , in conjunction with  $\delta^{18}\text{O}$  in particular, may nevertheless provide insight into physiological responses of *Callitris* to climate variation.

**Journal: Dendrochronologia / Publication Year: 2017 / Source: 2017 v.44**

Hope P, Timbal B, Fawcett R 2009 Associations between rainfall variability in the southwest and southeast of Australia and their evolution through time. MS, mean sensitivity a measure of the relative change between adjacent ring widths ; AC, first order autocorrelation; EPS, expressed population signal; rbar, the average correlation between the tree ring series tot, all cores; wt, between cores from the same trees; bt, between different trees. Annual seed production was recorded on a five-point scale from 5 very good mastинг to 1 very poor mastинг.

## influence of masting phenomenon on growth

The power spectrum of the reconstructed temperatures showed periodicities similar to those of the observed temperatures.

## PhD Theses

However, a decline in pedunculate oak stands has been documented in many regions over its native range ,. The centres of the time intervals which correlate at the highest degree with the tree-ring index are indicated by circles, and the beginning and the end of the corresponding time intervals are indicated by horizontal bars.

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