Supplementary Material for

Figure 1. Examples of the original and enhanced digital images of the *P. bourgaeana* (*a-b*) and *A. pinsapo* (*c-d*) cores.

Figure 2. *a)* Screenshot of *DIVA-GIS* with *Georeference Image* tool. *b)* Screenshot of *DIVA-GIS* showing a polyline-type layer including line segments drawn between pairs of consecutive landmark points. *c)* Rings identified by the insertion of tags (*DIVA-GIS*).
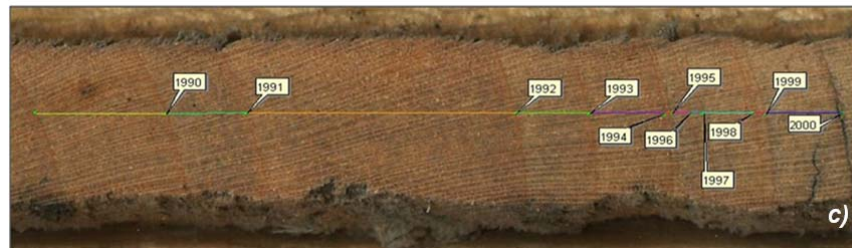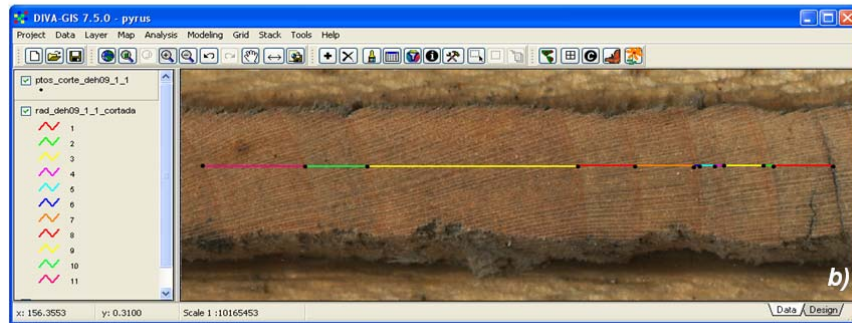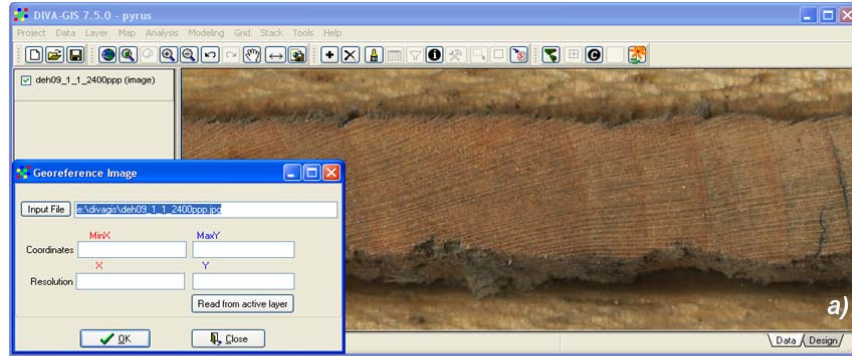
Figure 3. Tree-ring growth measurements for *A. pinsapo* and *P. bourgaeana* comparing *GIS-SDI*, *LINTAB-TSAPWin*™ and *WinDENDRO*™ for the period 1978-2007.

P. bourgaeana (a)

P. bourgaeana (b)

P. bourgaeana (c)

P. bourgaeana (d)

P. bourgaeana (e)

P. bourgaeana (f)

P. bourgaeana (g)

P. bourgaeana (h)