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Application of growth rings and scars in exposed roots of *Schizolobium parahyba* as a tool for dating geomorphic processes in the State of São Paulo, Brazil

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Highlights

- Dating of growth rings using exposed and buried roots.
- The study of growth rings of *Schizolobium parahyba*.
- Scar analysis
- Use of dendrogeomorphological techniques in tropical climate.

Abstract

Water erosion is an important degradation process, which results in loss of soil, reduction in agricultural productivity, and causes severe environmental impact. Dendrogeomorphology has methods in which the structure of the wood of the stem and roots of tree and shrub species affected by sediment deposition or by root exposure is analysed, to establish the chronology of erosive events. The objective of the present