
Pleistocene-Holocene sequences in the Serra da Capivara National Park, Brazil: a regional chronological framework for the study of human occupations

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Résumé

In the long and contentious debate surrounding the Late Pleistocene occupation of South America, our French-Brazilian research team has investigated since 2008 several sites in and around the Serra da Capivara Regional Park in Piauí, Brazil. Seven sequences have been studied or are currently under study. For six of the seven sequences, a chronological framework has been established thanks to luminescence dating methods and/or radiocarbon (see for example Lahaye *et al.*, 2015; Bo’eda *et al.*, 2016). With this available data, we now propose to establish a chronocultural framework of these late-Pleistocene and Holocene occupations at a micro-regional scale. The model is based on Bayesian statistical modeling with the BayLum package (Combès et Philippe, 2017; Philippe *et al.*, submitted), taking into account both results from numerical dating methods (luminescence and radiocarbon, in this case) and stratigraphic constraints, regional geological settings and cultural similarities among archaeological levels.

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Mots-Clés: chronology, luminescence, America, Bayesian modeling