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Perspectives on the use of growth rate patterns in fossil ectotherm bones to characterise ancient continental environments: Case study in Late Neogene sites from northern Chad (Djurab)

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1 **Perspectives on the use of growth rate patterns in fossil ectotherm bones to characterise ancient**
2 **continental environments: case study in Late Neogene sites from Northern Chad (Djurab)**

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23 Running title: palaeoenvironmental perspectives from ectotherm growth studies

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25 **Abstract** – We investigate the feasibility and potential relevance of studying growth patterns in the
26 bones of fossil freshwater ectotherms with the aim of developing new markers for continental
27 palaeoenvironments and climates. This prospective study is based on Late Neogene material from
28 Chad. It thus provides preliminary results that interest the reconstruction of palaeoenvironments in
29 ancient hominid bearing sites and that also document palaeoenvironmental changes in continental

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