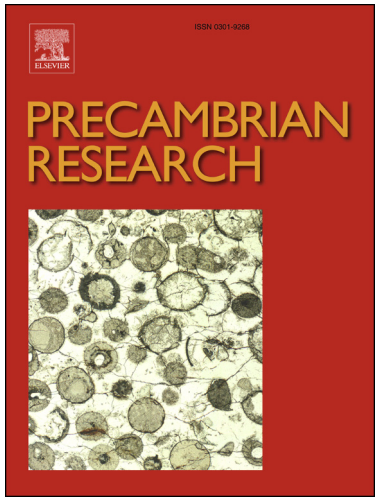

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Timing of collisional and post-collisional Pan-African Orogeny silicic magmatism in south-central Chad

J. Gregory Shellnutt[a]*, Ngoc Ha T. Pham[a], Steven W. Denyszyn[b], Meng-Wan Yeh[a,c], Tung-Yi Lee[a]

[a]*National Taiwan Normal University, Department of Earth Science, 88 Tingzhou Road Section 4, Taipei 11677, Taiwan*

[b]*University of Western Australia, School of Earth and Environment, 35 Stirling Highway, 6009 Australia*

[c]*Center for General Education, National Taiwan Normal University, 162 Heping East Road Section 1, Taipei 106, Taiwan*

*Corresponding author.

E-mail address: jgshelln@ntnu.edu.tw (J.G. Shellnutt)

Abstract

Precambrian crust within southern Chad and eastern Cameroon preserves rocks that were remobilized and emplaced during and after the Neoproterozoic (~650 Ma to ~610 Ma) collision between the Congo, São Francisco, West African cratons and the Saharan Metacraton. The Guéra Massif of south-central Chad and granites located near Lake Fitri are inferred to be of Neoproterozoic age but there are no radio-isotopic dates available to confirm their association with the Pan-African Orogeny (Central African Fold Belt). New zircon U/Pb geochronology of