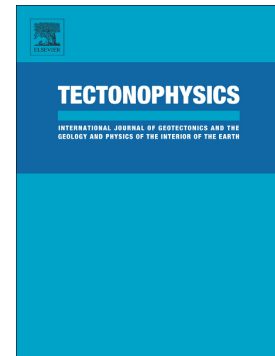


Accepted Manuscript

On thrusting, regional unconformities and exhumation of high-grade greenstones in Neoarchean orogens. The case of the Waroonga Shear Zone, Yilgarn Craton

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PII: S0040-1951(17)30200-7
DOI: doi: [10.1016/j.tecto.2017.05.017](https://doi.org/10.1016/j.tecto.2017.05.017)
Reference: TECTO 127493

To appear in: *Tectonophysics*

Received date: 8 May 2015
Revised date: 10 May 2017
Accepted date: 19 May 2017

Please cite this article as: I. Zibra, F.J. Korhonen, M. Peternell, R.F. Weinberg, S.S. Romano, R. Braga, M.C. De Paoli, M. Roberts, On thrusting, regional unconformities and exhumation of high-grade greenstones in Neoarchean orogens. The case of the Waroonga Shear Zone, Yilgarn Craton, *Tectonophysics* (2017), doi: [10.1016/j.tecto.2017.05.017](https://doi.org/10.1016/j.tecto.2017.05.017)

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**On thrusting, regional unconformities and exhumation of high-grade greenstones in
Neoarchean orogens.**

The case of the Waroonga Shear Zone, Yilgarn Craton.

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Abstract

During the Neoarchean, the dominant tectonic style progressively changed from an episodic-overturn/stagnant-lid regime to modern-style plate tectonics. The Neoarchean strengthening of continental lithosphere changed the style of deformation of orogenic belts. The case study presented here provides insights into how such transition in tectonic style occurred, a matter that is generally controversial.

We present structural and metamorphic data from the c. 2660 Ma Waroonga Shear Zone (WSZ) in the Neoarchean Yilgarn orogen (Western Australia). The WSZ contains a

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