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C. Ballouard, M. Poujol, P. Boulvais, A. Zeh

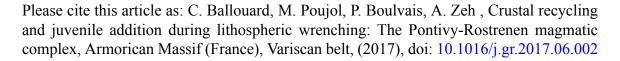
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## **ACCEPTED MANUSCRIPT**

Crustal recycling and juvenile addition during lithospheric

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Armorican Massif (France), Variscan belt.

Ballouard C.a, b, \*, Poujol M.a, Boulvais P.a, Zeh A.c, d

<sup>a</sup>UMR CNRS 6118, Géosciences Rennes, OSUR, Université Rennes 1, 35042 Rennes cedex, France

<sup>b</sup>Department of Geology, University of Johannesburg, PO Box 254, Auckland Park 2006, South Africa

\*correspondance: christopheballouard@hotmail.fr

<sup>c</sup>Institute for Geosciences, Goethe University Frankfurt, Section Mineralogy, Petrology and

Geochemistry, Altenhöferallee 1, D-60438 Frankfurt, Germany

<sup>d</sup>Institute for Applied Geosciences – Karlsruhe Institute of Technology (KIT), Campus South,

Mineralogy and Petrology, Adenauerring 20b, 50.4, D-76131 Karlsruhe, Germany

Keywords: Peraluminous and metaluminous magmatism; strike-slip fault;

mantle fertilization; Hercynian belt; South Armorican Shear Zone.

#### **Abstract**

The South Armorican Shear Zone (SASZ), in the French Armorican Variscan belt, is a lithospheric wrench fault that acted during the Late Carboniferous as a transition zone between two distinct domains: a thickened domain to the south affected by extension and crustal magmatism, and a weakly thickened domain to the north subjected to dextral wrenching and crust- and mantle-derived magmatism. The Pontivy-Rostrenen complex is a composite intrusion emplaced along the SASZ. To the south, the complex is made of leucogranites whereas, to the north, monzogranites outcrop together with small intrusions of quartz

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