

## **New U/Pb ages of the calc-alkaline felsic volcanism of El Jadida (Moroccan Coastal Block)**

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Field observations and U/Pb zircon ages of volcanic outcrops in the coastal border of El Jadida city, (western Moroccan Meseta) provide firm evidence of Neoproterozoic volcanism in the basement of the Moroccan Variscan domain. Petrographic study carried out on this volcanic substratum allows concluding that these rocks are rhyolitic, rhyodacitic and rhyolitic ignimbrites, overlain by a thick Upper Neoproterozoic/lower Cambrian chaotic and dolomitic series. The geochemical study permits concluding that the felsic volcanic facies of El Jadida have a calc-alkaline magmatic affinity. Concordant U-Pb zircon data yield Ediacaran mean ages for rhyolitic ignimbrites facies (between  $577.2 \pm 3.1$  Ma and  $580.8 \pm 1.4$  Ma) and rhyolitic, rhyodacitic facies (between  $605 \pm 11$  Ma and  $577.7 \pm 3.8$  Ma). The geochemistry of these felsic volcanic rocks allows to suggest that these rocks were formed in a subduction to within plate geodynamic context.

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