

CORRECTION

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Correction to: Ion microprobe dating of fissure monazite in the Western Alps: insights from the Argentera Massif and the Piemontais and Briançonnais Zones

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Correction to: Swiss Journal of Geosciences (2020) 113:15
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Following publication of the original article (Ricchi et al. 2020), multiple typesetting errors were identified in the article. The updated sections/sentences are given below and the changes have been highlighted in **bold typeface**.

Keywords

²⁰⁸Pb/²³²Th fissure monazite age, Western Alps, High pressure, Argentera Massif, Tectonic activity, Hydrothermal monazite chemistry.

Introduction

In monazite-bearing fissures, quartz and adularia typically form **at** an early stage of fissure formation (< 500–450 °C), whereas monazite crystallizes at later stages (between 400 and 200 °C) (e.g. Gnos et al. 2015).

Methods

In situ Th–Pb dating of five monazite grains was carried out at the SwissSIMS Ion microprobe facility, equipped with a Cameca IMS 1280 **HR** instrument, at the University of Lausanne, Switzerland (Table 3).

Since fissure monazite is dissolved and re-precipitated under changing chemical conditions (e.g. Grand’Homme et al. 2018), spot analyses affected by Pb_c (as indicated by older dates related to higher Pb_c, i.e. positive age-*f*₂₀₈ correlation), or those with high uncertainty (**1σ absolute > 1**) were removed from the dataset.

Top-NNW thrusting (> 35 Ma)

The oldest fissure monazite age of the Western Alps is recorded at ~ 36 Ma by BALZI2 grain from the Briançonnais Zone (Figs. 1 and 6) **and is** interpreted to be related to Late Eocene—earliest Oligocene top-NNW thrusting (episode (1); Table 2) which started at or before 38 Ma (Cardello et al. 2019).

Acknowledgements

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Editorial handling: **Paola Manzotti**.

The original article can be found online at <https://doi.org/10.1186/s00015-020-00365-3>.

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The original article (Ricchi et al. 2020) has been corrected and the Publisher apologises to the authors and the readers for the inconvenience caused by this typesetting error.

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