

# Response of the Rb-Sr system in biotite during contact metamorphism in the aureole of the Makhavinekh Lake Pluton, Labrador

Christopher R.M. McFarlane<sup>1</sup>

<sup>1</sup>Department of Earth Sciences, University of New Brunswick, Fredericton, E3B5M5, Canada

*Correspondence to:* Christopher R.M. McFarlane (crmm@unb.ca)

## Final changes made to revised manuscript v3

Please see responses in [blue](#)

### Editor comments

Dear Christopher

thank you for resubmitting your revised manuscript. It now accepted for publication subject to some minor technical correction. See comments from the handling editor.

I have a few additional minor requests:

Read the paper carefully and eliminate grammar and spelling mistakes:

few examples (not complete):

l 124 eliminates (singular) [fixed](#)

l 125 to reached should be " to have reached "? [fixed](#)

l 341, 424 isotopes missing for Sr [added isotope number to Sr when used as isotope ratio](#)  
you use "granulitic" (a textural term) and mean "granulite facies" a term describing grade of metamorphism [True; fixed these instances](#)

l 481 "upper-amphibolite and granulitic rocks" should be "upper-amphibolite and granulite facies rocks" [Fixed](#)

you use present tense and past tense in a somewhat random way. For facts use present tense, for events/process in the past use past tense [As far as I observe, the results are all present tense. I have made some wording changes in other sections to reflect past processes.](#)

use SI units: m not meter, s not sec [fixed](#)

I would also like to see isotopes written in the proper notation. The number is a superscript in front (not behind) the chemical symbol of the respective element. [obably plots. Yes obviously. The Iolite DRS spits out the mass number in opposite order. I have fixed this in the Supplementary material tables.](#)

### Associate Editor comments

All comments from the reviewers and the editor have been addressed in the revision. Information has been added regarding the location of the samples, mineral texture, methodology, and

uncertainty propagation.

However, a few minor technical corrections are still required:

- the term LA ICP-MS/MS is written incorrectly in the first sentence of the 'Conclusion' section.

Fixed

- captions are required for the first line of each sheet of the supplementary tables. Fixed. BTW I checked several Supplementary data files from previously published studies in Geochronology and found no consistent formatting styles...?

- Negative Ca concentrations in the 'Central Aureole' and 'Inner Aureole' tables should be indicated as less than the respective LOD. Fixed