

Dear Marissa,

We are pleased to submit the revised version of the original manuscript “An analytical approach on (U-Th)/He dating by sample encapsulation in quartz ampoules under vacuum: application to goethite, Amerasian Basin, Arctic Ocean”.

We have taken into account all your suggestions, which include the impact of quartz ampoules on He diffusion kinetics; concerns about possible sample heating during the sealing procedure; general suitability of the material for (U-Th)/He dating; and future improvements of the technique and addressed all comments of the reviewers.

All changes are tracked.

Best regards, Olga