

Dear Editor,

We appreciate the careful reading by Reviewer 1 and accepted many of his suggestions. We also went through the manuscript carefully and made minor corrections in the text, in Figures 1, 5 and 6, in Table 2, in Supplementary Figure 1. and in the list of references. Below we address the point-by-point changes suggested by Reviewer 1.

Lines 16 and 17

We rewrote this part of the abstract.

Line 18

This mountain range is called “the Dolomites”. No change made.

Line 67

“The” was replaced by “an”.

Lines 135-136

The text was partly changed following the reviewer’s suggestion.

We moved the bottom boundary of the model deeper than the cave to avoid numerical influences of the boundary with the solution in the cave (at cave depth). This is numerically a more sound approach than modelling just to the cave depth. Therefore, our simulations are run to 70 m depths.

Line 145

A reference for the relevant figures was added to the text (Suppl. Figs. 2-4).

Line 148

The typo was corrected.

Lines 173-174

The sentence was moved to the end of the paragraph, as suggested by the reviewer.

Line 183

“Instantaneous” was deleted to avoid confusion.

Line 231

“Scenario” was added to all relevant places in chapters 4.4.2 and 4.4.3

Lines 266-273

We modified these sentences.

Line 288

“During” was replaced by “In”.

Line 292

“Cave” was deleted.

Line 311

“To” was added.

Lines 313-314

The sentence was changed.

Lines 360 and 361

Typo was corrected and the repeated word was deleted.

Figure 5

Thank you for spotting this typo in Table 2 (FOS12-C2), it is corrected in the revised manuscript. We double-checked the data and they are correct.

Sincerely,

On the behalf of all co-authors,

Gabriella Koltai