

## Comments by topical editor Virginia Toy

### Comments to the author:

I have reviewed the revisions you made in response to the previous reviews, and find them reasonable.

I did identify the following further minor revisions I think you should make prior to acceptance for publication;

- L423 Perhaps you should paraphrase the response to reviewer 2 about the origin of the ellipsoidal grains you describe?
- L482 'have a similar origin to'
- L648 'do not allow us to determine'
- Please label the porosity in new Fig. 12. Also, you use this figure to demonstrate the higher porosity in the fibrous serpentine veins than matrix serpentine - in that case I think you should add a panel that shows the matrix serpentine for comparison.
- Please incorporate the new figures you added to the supplement in response to the Reviewer's comments into the main manuscript - I don't think most people will see them if they are only in the supplement, and they are clearly of interest to readers (and reviewers).

### Author response

Dear Virginia, dear editors,

thank you for your remarks. In the revised manuscript version, we have:

- Included a paraphrased version of our response to a comment by reviewer 2 in L423: „The ellipsoidal/spheroidal grain habit is interpreted to be a result of disequilibrium precipitation at high oversaturation (Beinlich et al., 2020b) and/or under deviatoric stress (Menzel et al., 2021).“
- corrected L482 as suggested
- corrected L648 as suggested
- labelled the porosity in Fig. 12 and added a second panel to this figure where the porosity in matrix serpentine in contrast to the vein is better visible
- incorporated two images in Fig. 2 and one image in Fig. 9 that we before had added as supplementary figures in response to reviewer's comments. We updated figure references throughout the text accordingly.

We thank again all reviewers and editors for their input which helped to improve the manuscript, and hope that is now suitable for publication.

With kind regards on behalf of all authors,

Manuel Menzel

(corresponding author)

May 6, 2022