

Interactive comment on “Tsunamigenic potential of a Holocene submarine landslide along the North Anatolian Fault (North Aegean Sea, off Thasos Island): insights from numerical modeling” by Alexandre Janin et al.

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Dear editors and reviewer,

You will find attached to this letter (as supplement) the last corrected version of ‘Tsunamigenic potential of a Holocene submarine landslide along the North Anatolian Fault (North Aegean Sea, off Thasos Island): insights from numerical modeling’. We will here answer questions raised by the review process.

Answer to question 1:

I change the figure 2 to show clearly the bathymetry of the Thasos slide (I also add the raw seismic profile). The bottom limit of the landslide have been draw thank to seismic profile (figure 2b and figure 2d) and thank to bathymetry. Indeed the termination of the slide deposit is clearly noticeable on seismic data and this deposit is marked on the bathymetry by surface asperities (hummocky facies on the seafloor as mentioned in the manuscript). I have also added some precisions on the legend of figure 3: The white lines drawn to delimit the slide's deposit correspond to the main transport deposit. However, a thinner deposit (less than 20 m thick) may extend beyond this limit but the resolution of seismic data if not enough to detect it. Overall, the captions of the figure have been simplified.

Answer to question 2:

The notation previously used in Figure 2 (e.i. SC, SLD, SLB, SLP and GP) come from the paper of Lykousis et al., 2012. However, as they are not essential in this manuscript and as we did not re-interpret them, we decide to remove these notations from all figures.

Additional comments:

Thanks to the good advice of the reviewer, we add the location of the Thasos slide on the general map of the north Aegean Basin (Figure 1) and the size of the figures has been increased. Moreover, some minor corrections have been made on the language and the bibliography has been updated to 2018.

We hope this corrected manuscript with fulfill the editor's expectations and that they will find it of great interest for NHSS.

We thank K. Kawanura for his rigorous and usefull work of review.

Best Regards, Alexandre Janin, on behalf of co authors

N.B. The entire corrected manuscript is attached as supplement file.

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Please also note the supplement to this comment:

<https://www.nat-hazards-earth-syst-sci-discuss.net/nhess-2017-405/nhess-2017-405-AC1-supplement.pdf>

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2017-405>, 2018.

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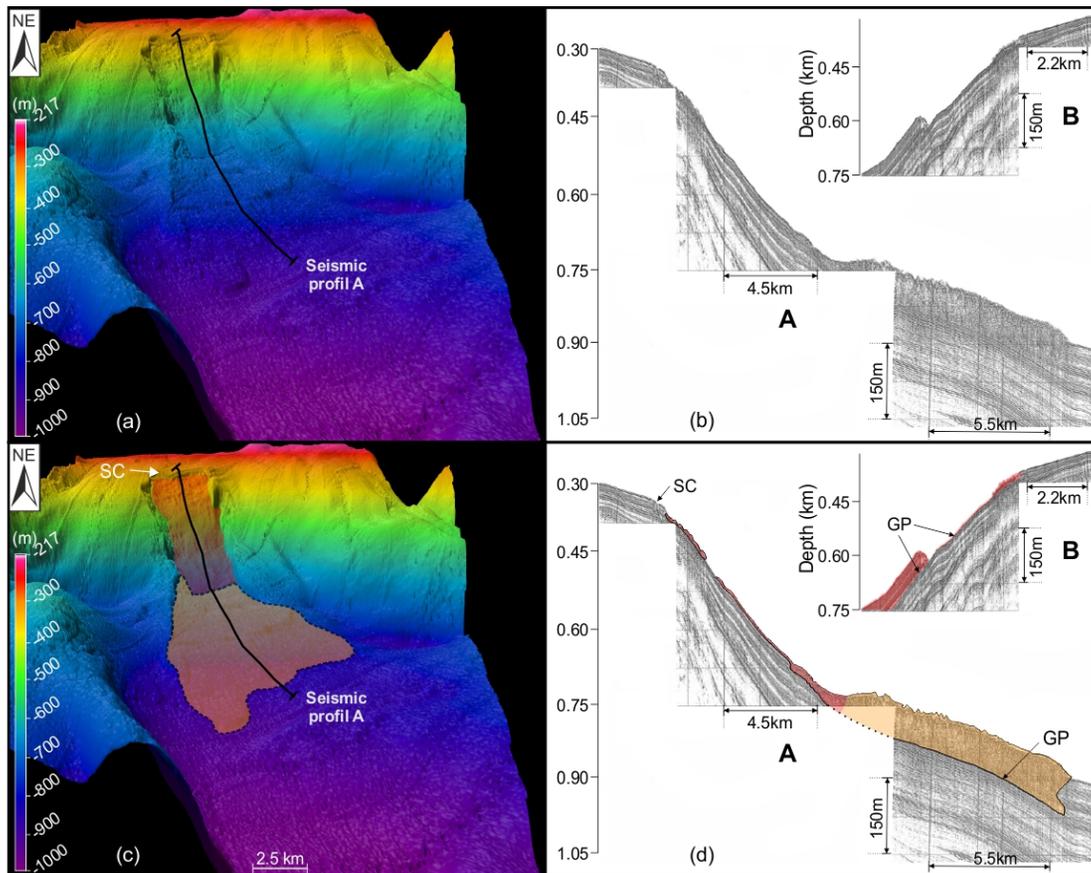


Fig. 1. Figure 2 corrected

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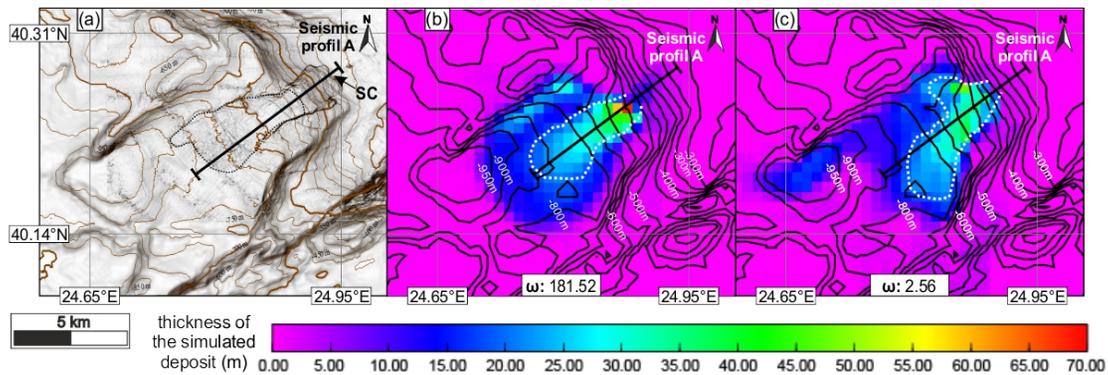


Fig. 2. Figure 3 corrected

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