

# ***Interactive comment on “An adaptive unstructured mesh based solution to topography least-squares reverse-time imaging” by Qiancheng Liu and Jianfeng Zhang***

## **Anonymous Referee #2**

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This paper describes a LSRTM scheme in the presence of topography, which is an extension of the authors' previous work on RTM. This is reasonable, but the authors do not talk about the specific issues of LSRTM. In the current literature, there are several researchers already dealing with topography with LSRTM, but the authors did not talk any of them. What is the advantage of this method to the current literature.

Another issue I am concerning is that, wave propagation in the presence of topography is very complex. Dealing with this problem on the acoustic approximation is a big issue. No surface waves are simulated.

Since this paper is trying to dealing with practical problem, I hope the authors can

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present it in a more practical way.

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Interactive comment on Solid Earth Discuss., <https://doi.org/10.5194/se-2019-37>, 2019.

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