

Interactive
Comment

Interactive comment on “Finite difference modelling to evaluate seismic P wave and shear wave field data” by T. Burschil et al.

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This paper gives a nice example of FD modeling of a near surface structure. My comments: 1) I find the two models confusing. Why not rejecting model one? You write “the most prominent difference is a discontinuous till layer in the centre of the image at about 80 m depth” or “missing of a strong reflector at about 260 m depth”. But you have a discontinuous till layer in your model and you have no layer at 260 m depth in your model. So, why are you astonished to have it or not have it in your modeled seismic section? The modeling is fine, but you start with a too simple model. It is simplified for hydraulic modeling but this makes no sense for seismic modeling. So my proposal: skip this model! Don’t bother us with this insufficient model. 2) Why don’t you show an example with weathering layer? Is it because of computing time? An information on

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computing time would be nice.

Interactive comment on Solid Earth Discuss., 6, 2169, 2014.

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