

## ***Interactive comment on “High resolution reflection seismic profiling over the Tjellefonna fault in the Møre-Trøndelag Fault Complex, Norway” by E. Lundberg et al.***

### **Anonymous Referee #3**

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Review report of “High resolution reflection seismic profiling over the Tjellefonna fault in the Møre-Trøndelag Fault Complex, Norway” by E. Lundberg, C. Juhlin, and A. Nasuti

This is a paper that the seismic structure at the Tjellefonna fault region by the use of seismic reflection profiles. The data is good and very important. It should be a good data to declare the seismic structure at the Tjellefonna fault. The data should be necessary to know the dynamics of this area. The data is very good. But, the logical presentation of this paper is not good.

1. Through the whole, the logical presentation should be check. It was hard to understand the logical presentation of this paper. The explanation of each part is good. But

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it was little bit hard to understand the logical flow of this paper totally.

2. The reflected waves of the R1 – R5 in figure 6 were not so clear. It is better to show the reflected waves of several record sections. The travel time line did not fit to the observed signals in the case of R3 and R4, in figure 7.

3. Regarding to the interpretation of the S-1, it is little bit difficult that this phase is a P-S converted wave based on the results of Figs. 9 and 10. More detail description is required.

4. In discussion, the authors wrote the interpretation of the observed data. The data is very good. It is much better to mention the tectonics and forming process of the fault zone in Discussion.

In this study, the observed data is very good. The seismic profile should be one of the important data to understand the structure of the Tjellefonna fault. It should be published after revision.

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Interactive comment on Solid Earth Discuss., 4, 241, 2012.

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