



Interactive comment on “Constraining fault interpretation through tomographic velocity gradients: application to Northern Cascadia” by K. Ramachandran

Anonymous Referee #1

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This is a very well written manuscript. I will be glad to accept it as is. However, I feel there are some points which author might consider to add in order to improve the paper quality and added scientific value to the paper.

1. The author need to carry out a synthetic test to show clearly the superiority of the gradient tomography method over the conventional velocity tomography.
2. A discussion on applicability and limitation of the gradient method will also improve the paper quality.
3. Author need to discuss the difference in resolution and sensitivity as observed in the figures in vertical and horizontal gradient.

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Interactive comment on Solid Earth Discuss., 3, 839, 2011.