Nat. Hazards Earth Syst. Sci. Discuss., 2, C3581–C3582, 2015
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Natural Hazards and Earth System Sciences
Discussions

Interactive comment on "Inversion method for initial tsunami waveform reconstruction" *by* V. V. Voronin et al.

Anonymous Referee #3

Received and published: 27 March 2015

This paper examined a SVD method for tsunami source inversion. I guess such an approach interesting. Optimization of strategy for setting inversion should be generally more investigated in future. The topic presented here had better to be published; however, current version needs modifications based on recommendations below, mostly in terms of technical corrections.

I must comment that qualities of the figures presented are low, as the reviewer #2 also commented. Readers will probably have difficulties in fairly understanding the figures.

1. All the figures needs units/labels.

2. Colored legends are necessary in Figs. 1, 5, 6, 8, and 9, since the author used lots of colors in drawing lines.

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3. Font sizes are too small in Figs. 1, 2, 3, 4, 5, 6.

4. Why negatives values are presented in the middle panel in Fig. 6? err% is always positive.

5. Figure 7 had better specify latitude/longitude or name of cities/provinces. I guess that the low-dip-angle thrust should be located in landward-slope region (e.g., x=300, y=200 in Fig. 7), rather than the current location (outer-rise region).

6. Table 1 needs to specify understandable names for respective experiment; specifying row number (??th row) is not easy to read.

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., 2, 7735, 2014.