

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

**V. V. Voronin et al.**

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Dear Sir, Let me express my sincere gratitude for your valuable comments and remarks concerning our paper. I will try to comment on all the items indicated.

We have omitted such labels, trying to avoid cramming the figures with details. In addition, there is an explanation about the units in the text (page 7747, line 29) that all the distances on the surface  $z=0$  are given in kilometers. Also, the units for unknown function are noted in captions in Figures 4, 11 and in the text (page 7753, line 20). However, I agree with your remark that the explanation of units requires more emphasis and it should be corrected .

2-3. Remarks 2, 3 will be taken into consideration in the corrected version of our paper.  
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4. As for Remark 4, please see page 7746 where value  $err\%$  is defined.

5. Now about Figure 7: I should may be explain that the picture in this Figure corresponds to real bathymetry as rotated to 180degrees. This was done for the sake of simplicity of calculation, such rotation is of no importance for result. Initially, the coordinates of the calculating domain before rotation are from  $5^{\circ}S$  up  $15^{\circ}S$  and from  $85^{\circ}W$  up  $75^{\circ}W$  (subsequently, the boundaries were little changed in order to reduce the area of calculating).

6. In Table 1, there are no specified names of the experiments because all the experiments differ in the conditioning number of matrices, in the quantity and in number of the receivers used in the inversion (have been marked by bold font). We associate such allotment with the name of experiment for the purpose to concentrate the reader's attention on the analysis of receivers spread in terms of the bathymetry in the Figure 7. Although we are are willing to give other designations of the experiments.

Sincerely, Dr. Tatyana Voronina

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