

## ***Interactive comment on “Speeding up and boosting tsunami warning in Chile” by Mauricio Fuentes et al.***

**Anonymous Referee #3**

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This paper presents a method for quick tsunami estimation in Chile early warning system using W-shape inversion for rough source estimation and linear tsunami numerical modeling. They mention this new approach as a fill-in gap method for the warning system. They have also tested their method with historical tsunami events and proved that they have good correlation between the real case and their results. This work is worth to be published. However, it needs major revision in terms of presenting and discussing their results, grammar in the entire text and conclusion. Besides, it is necessary to have further discussion and explanation on figures.

Below are the sentences that are not clear to me. They need to be rephrased: 1. Page 1 Line 14 whole sentence 2. Page 2 Line 4 “operating monitoring systems” 3. Page 2 Line 11 “until decreases to 0.5 to 1 m” 4. Page 5 Line 11 ... whole paragraph 5. Page

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5 last paragraph 6. Page 6 Line 4 to 6 7. Page 9 last paragraph

Below are some of grammar corrections: 1. Page 1 Line 3 “100 km which creates” 2. Page 2 Line 6 “This problem is separated in three parts: the determination of...” 3. Page 3 Line 24 “...with a fully linear shallow water equation propagation.” 4. Page 4 Line 24 “....have tested as many earthquakes listed below and...” 5. Page 6 Line 2 “...very first minutes...” 6. Page 6 Line 11 “...which deploy a specific...” 7. Page 7 Line 1 “These kind of maps...” 8. Page 7 Line 5 “with a unique and simple...” 9. Page 7 Line 9 “...and number of people exposed to this hazard...” 10. Page 7 Line 13 “...details rather than modeling...” 11. Page 10 Line 1 “Using the methodology of Sandabata et al. (2018)...”

About Figures and Tables: 1. Please refer to Figure 1 in the text. 2. please insert Table 1 after its reference in the text. 3. Figure 2: Does this red color on land represent runup values larger than 3m? Does this mean all of this are experienced more than 3m runup?? 4. Figure 5: please compare and discuss the difference between two maps: in terms of the effect of dispersion etc.. 5. Figure 6: please refer Figure 6 in the text and explain.

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