

What "tsunami earthquake" is?

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Kanamori (1972) defined “tsunami earthquakes” as earthquakes that excite much stronger tsunami waves than that expected from the amplitude of the earthquake waves. He pointed that tsunami earthquakes always associated with slow crustal deformations with the time scale of several hundred seconds, but did not specify what is the cause of it. In the present presentation, I will look for the possibility that a tsunami earthquake is amplified by large-scale submarine landslides with the area of $\sim 10000 \text{ km}^2$, caused by liquefaction of the sediments in the slope, induced by vibration of the earthquake.

[1] Kanamori, H.: Mechanism of tsunami earthquakes. *Physics of the Earth and Planetary Interiors*, 6, 346-359, 1972.

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