

Crustal Deformation and Fault Model of the 2007 Sumatra Earthquake

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<http://cais.gsi.go.jp/Research/topics/topic071001/index.html>

We estimated the slip distribution of the 2007 S. Sumatra Mw8.4 earthquake from Daichi (ALOS) interferograms. The length of a seismic gap off Padang between the 2007 and the 2005 ruptures is 370 km. The magnitude of a possible gap-filling megathrust earthquake will be larger than the 2007 event. Two discontinuities of phase were found in the Pagai Islands (Pulau Pagai), which probably show that the portion between two faults subsided relatively when the South Pagai Island uplifted coseismically.

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