

of the April 11, 2012 Sumatra Outer-Rise Earthquake Based on Seismic Wave Calculation

The April 11, 2012 Sumatra Earthquake, has very large magnitude $M_w = 8.6$ and allegedly caused huge tsunamis but the reality is very low only $H = 0.3$ m. We categorize this incident as an outer-rise earthquake and depth = 40 km. The calculation of source parameters using the teleseismic wave characterized as the tsunami-genic earthquake with seismic moment $M_0 = 6.3E+21$ Nm, seismic energy $E = 3.3E+16$ Nm, ratio energy and moment $R = -5.3$ and long rupture duration 134 sec.

Primary author: PUSPITO, nanang tyasbudi puspito (Bandung Institute of Technology)

Presenter: PUSPITO, nanang tyasbudi puspito (Bandung Institute of Technology)

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