



Seismic and Infrasound Signals from the 2004 Sumatra-Andaman and the 2011 Tohoku-Oki Tsunamis

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The great earthquakes of 26 December 2004 (magnitude 9.3, Sumatra-Andaman) and of 11 March 2011 (magnitude 9.0, Tohoku-Oki, Japan) caused tsunamis and atmospheric infrasound waves. We observed seismic signals at coastal stations caused by tsunamis and infrasound signals caused by displacements of the sea surface at the epicenter. We located the tsunami sources from the infrasound travel times. Since the infrasound wave is travelling faster than the tsunami, it is for warning purposes very intriguing to study the infrasound generation directly at the earthquake source. We suggest that a denser network of infrasound stations may be helpful for tsunami warnings.