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Source processes of the 2011 Tohoku-Taiheiyo-oki earthquake inferred from teleseismic body waves

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On March 11, 2011, a huge earthquake with a magnitude of 9.0 occurred along the Japan Trench off Iwate-Miyagi-Ibaragi, Japan. We investigated the source process by using teleseismic P- and SH-wave data. This earthquake was an interplate earthquake associated with the subduction of the Pacific plate, and consisted of some asperities. The asperity near the Japan Trench might have behaved like the tsunami earthquake.