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The mechanism of Central Chile earthquake in 2009

Hiroshi UENO^{1*}, Hiroaki KATAYAMA¹, Yuji USUI¹

¹Japan Meteorological Agency

A large earthquake (Mw8.8) occurred at Central Chile coast in South America on Feb. 27th, 2010. We will report about CMT analysis, W-phase analysis and source rupture process analysis with using teleseismic body wave.

CMT analysis and W-phase analysis showed a thrust type with its pressure axis in a E-W direction. The Mw of this earthquake was estimated 8.8 from both CMT analysis and W-phase analysis. From source rupture process analysis, fault length, width and amount of the largest slip were estimated about 500km, 200km and 8-11meter, respectively.

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Keywords: CHILE, source rupture process analysis, W-phase analysis, CMT analysis