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Rupture Imaging of large earthquakes with a poststack isochrone migration method

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We use the broadband waveforms of the global network to reveal the gross rupture characteristics of large earthquakes (Mw $>$ 6.5) by a poststack isochrone migration. The spatio-temporal resolution capability and the potential gain of using later phases are discussed. We present results for the retrieval of kinematic source parameters (rupture length and duration, rupture mode, rupture velocity) for several previously well investigated major earthquakes. Finally a processing scheme suitable for realtime data processing is proposed and tested for all major earthquakes since November 2006.