

Near real time analysis of source process using teleseismic body wave

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USGS recently started a real-time broadcast of seismic waveforms, Live Internet Seismic Server (LISS), and the system delay time is less than 1 minute. Yamanaka and Kikuchi (2000) successfully automated the method by Kikuchi and Kanamori (1991), who estimated earthquake rupture process using teleseismic body wave waveforms. With LISS data, we are able to complete source process analysis within 15 minutes after their occurrence for teleseismic events, if accurate hypocentral locations are provided by other agencies, or they are determined by ourselves with LISS data. Small number of stations currently available in LISS would be an issue in this application.