Figure S4. Observed (black bold lines) and predicted (red lines) P and SH waveforms for the 25 October 2010 Mentawai earthquake for the body wave only inversion. Data and synthetics are on true relative amplitudes for P and SH separately, with all SH signal amplitudes being reduced by a factor of 5 relative to the P signals. The station code and azimuth from the source are indicated. These data have limited sensitivity to the rupture directivity, but do constrain the depth extent of the rupture. The corresponding slip distribution is shown in Figure 1b.