

## P and SH wave upper mantle velocity structure beneath South China

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There is widespread intracontinental orogen and magmatic province in Mesozoic South China. Study of upper mantle velocity can bring light on the distribution and movement of material in deep earth of this region. Triplication waveform of P and SH from 5 to 30 degree recorded by CDSN(Chinese Digital Seismic Network) are used to obtain P and SH wave upper mantle velocity structure by comparing with synthetic waveform. There is low velocity layer above 410 in both P and S waveform, and 410km discontinuity is broadened. Low P and low S velocity and high  $V_p/V_s$  may be result of partial melting related to plate subduction.

Keywords: triplication, upper mantle , partial melting