

## Qs for shallow crust in the west side of volcanic front based on the strong motion records at southwestern Kyusyu region

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Qs for shallow crust in the west side of volcanic front is estimated based on the strong motion records observed at southwestern part of Kyusyu region. Twofold spectral ratio method is applied to the records at 36 K-NET stations for 36 crustal events. Geometrical spreading factor,  $n$ , along the propagation path shows slight frequency dependency. The average value of  $n$  from 1 to 20 Hz is 1.04 that is close to the geometrical spreading factor of homogeneous media. Constraining  $n$  to 1.0, Qs-value is obtained as  $Q_s(f)=96f^{0.66}$ . This Qs-value is within the range of  $Q(f)$  for the east side of volcanic front.