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The propagation characteristics of quasi-long period seismic ground motion by the dense south Kanto seismic network

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The high dense seismic network is powerful tool to research the heterogeneous seismic wave propagation.

The south Kanto region stands on the thick sediment layer

and the networks record the long period (7-10sec) and long duration seismic motions.

we pursued the long period seismic wave packets from the source to the networks and identified two surface wave groups by the Rayleigh

wave seimograms. The first group is normal direct-path surface wave generated from the source.

The large amplitude of Love wave is observed immediately

after the first group pass and is followed by the second Rayleigh wave phase.

We concluded that the most dominant horizontal phase is secondary generated by the sediment/basement interaction.