A study on hypocentral distance dependency of path effects (Q-Value) using double spectral ratio in KINKI region

Masato Tsurugi [1], Takao Kagawa [1]

[1] G.R.I., Osaka

Path effects have been evaluated as a function of frequency, i.e. Q=Q0*frq^(alpha), by such as spectral inversion method. We have noticed that these coefficient, Q0 and alpha, depend on hypocentral distance of the data set used. Here, hypocentral distance dependency of path effects (Q-Value) is evaluated using double spectral ratio in KINKI region.

In the result, Q0 depends on hypocentral distance, but its variance is large. The other coefficient, alpha does not depend on the distance.