

Mantle Structure Beneath the Northwestern Part of the Philippine Sea Region, as Inferred from J-array Data

Azusa Shito[1], Takuo Shibutani[2]

[1] DPRI, Kyoto Univ., [2] RCEP, DPRI, Kyoto Univ.

We investigated the P-wave velocity structure of the upper mantle beneath the northwestern part of the Philippine Sea region by using the waveform data recorded at J-array stations.

Events near the Taiwan region are recorded in the J-array provides us high quality waveform data sampling the mantle transition zone beneath the northwestern part of the Philippine Sea region. We analyzed the travel times of the triplicated P waves at regional distances.

In our previous study [Shito and Shibutani, 2001], the variation of 1-D P wave velocity structure of the upper mantle transition zone beneath the Philippine Sea region is studied by using waveform modeling.

In this study, we try to give much constraint on the velocity structure and reinforce the previous study.

We investigated the P-wave velocity structure of the upper mantle beneath the northwestern part of the Philippine Sea region by using the waveform data recorded at J-array stations.

Events near the Taiwan region are recorded in the J-array provides us high quality waveform data sampling the mantle transition zone beneath the northwestern part of the Philippine Sea region. We analyzed the travel times of the triplicated P waves at regional distances.

In our previous study [Shito and Shibutani, 2001], the variation of 1-D P wave velocity structure of the upper mantle transition zone beneath the Philippine Sea region is studied by using waveform modeling.

In this study, we try to give much constraint on the velocity structure and reinforce the previous study.