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Characteristics of deep crustal structure in Pacific plate by prestack migration

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Japan Agency for Marine-Earth Science and Technology has been carried out three multi-channel seismic reflection surveys on Pacific plate region in 2009 (KR09-06, KR09-07, KR09-17 cruises) for understanding characteristics of oceanic crust before subducting. Obtained seismic profiles indicate the clear image about Pacific plate including continuous Moho reflection and dipping crustal reflector. We applied prestack migration using OBS velocity in order to reveal the deeper part of this region and crustal evolution. First, we attempt to image the deep crustal characteristics of Pacific plate. In this meeting, we will report the preliminary result of prestack migration for these cruises.

Keywords: MCS survey, Pacific plate, prestack migration