

Structure of arc/ocean transition and its relation to seismogenic zones

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It is believed that a structure of Japanese island is closely related to materials supplied from subducting oceanic crust. Occurrence of earthquake in the Japanese island is also considered to partly controlled by the subduction of oceanic plate. It is, thus, important to investigate structures at the arc/ocean transition zone around Japan, in order to study tectonics of Japanese island arc. In this study, we present results of seismic survey around Japan conducted by JAMSTEC. We also discuss relations between the structures we obtained and seismogenic zones