

AOB Seminar

講演者名: ①小平秀一 博士, ②福地里菜 博士

所 属: 海洋研究開発機構

開催日時: 2017 年 11 月 17 日(金) ①13:00-14:30 ②14:40-16:10

場 所: 地球物理学第 2 講義室

講演題目&要旨①:

What we have learned about subduction zones from marine seismological exploration

JAMSTEC have been working on active- and passive-seismic data acquired around subduction zones crossing from the oceanic plate entering subduction zones to volcanic arcs through plate boundary seismogenic zones. In this seminar, in order to summarize what we have learned about subduction zones from marine seismic studies, I will present a review of seismic studies we carried out in the fault zone of the 2011 Tohoku earthquake, the incoming oceanic plate to the Japan Trench, as well as our past studies in the volcanic island arcs.

講演題目&要旨②:

Accretionary prisms of subduction zones in Japan: an example from the Nankai Trough

Earthquakes and tsunamis in the Nankai subduction zone are caused by slippage on the plate interface and the megasplay fault. Accretionary prisms are formed by sediments accreting onto the continental plate at the oceanic plate boundary, and includes both hanging-wall of plate boundary fault and megasplay fault. It is a key to understanding the shallow portion of subduction-zone earthquakes. In this seminar, I will introduce seafloor geological structures and evolutionary processes of accretionary prisms, with a special focus on the Nankai Trough subduction zone.