

## **Sedimentary and structural interpretation of single-channel seismic data in the western Sagami Bay**

# Ayanori Misawa[1]; Mikiya Yamashita[2]; Keizo Sayanagi[3]; Masataka Kinoshita[2]

[1] School of Marine Sci. & Tech., Tokai Univ.; [2] JAMSTEC; [3] IORD, Tokai Univ

In May 2005, high density single-channel seismic survey was carried out in the Sagami Bay area, central Japan, during the KY05-06 cruise using R/V KAIYO of JAMSTEC (Japan Agency for Marine-Earth Science and Technology). Continuously, In January 2006, Multi-channel seismic survey was carried out in the same area during the KY06-01 cruise using R/V KAIYO of JAMSTEC. We obtained very clear images down to 1 sec. (TWT) from these surveys, especially off Hatsushima area. We identified these major sedimentary units above the acoustic basement. There are commonly identified though out the western Sagami Bay. Acoustically transparent zone were recognized on almost all the seismic profiles perpendicular to the submarine escarpment elongated in a NNE-SSW direction. These transparent zones are probably gas- or fluid-based diapirs along the submarine escarpment. Also, we suggest that the gas or fluid are discharged though the possible faults along the escarpment. We will here present the results of the surveys and discuss the distribution and constitution of the diapir-like structure.