

## Topographical and geological character of Sofugan Tectonic Line area, Izu-Ogasawara arc.

# Izumi Sakamoto[1], Toshiya Fujiwara[2], Osamu Ishizuka[3]

[1] JAMSTEC, [2] Deep-Sea Res. Dept., JAMSTEC, [3] GSI

Sofugan Tectonic Line (STL) locates on the middle part of Izu-Ogasawara Arc (IOA), and divides it into Northern- and Southern part. Four geological categories such as 1) fore volcanic front zone, 2) volcanic front zone, 3) back-arc knolls zone, and 4) back-arc seamounts zone are estimated based on the geological phenomenon. And three major fault (tectonic) direction are confirmed such as 1)NE-SW, 2)NW-SE, and 3)N-S trending.

These topographical and geological characters indicate each stage for developing activity of Oceanic Island Arc.