

## Changes in magnetic fabrics in sheared sedimentary rocks

# Toshio Hisamitsu[1], Wonn Soh[2]

[1] Marine Core Res., Kochi Univ., [2] JAMSTEC

Anisotropy of magnetic susceptibility (AMS) has become to be commonly used for structural and fabric analyses of sedimentary rocks. However, behavior of magnetic fabric during brittle deformation is still unclear. Some difficulties of the magnetic fabric investigation come from rock magnetic control of magnetic grain and variety and unsorted grain size of them. Although these difficulties, the fabric directions of AMS results from Kenting Melange, Southern Taiwan show well aligned grain fabric along to structural foliation of fine-grained sediments. In contrast, decollement zone at the toe of the Nankai prism indicate scattered magnetic fabric and low degree of anisotropy susceptibility with which considered high permeability of deformation zone could strongly associate.