Lc-024 Room: C402 Time: June 9 15:31-15:44

## Monsoonal fluctuation during 120ka by clay fraction analysis of the eastern Mediterranean Sea, ODP Leg 160

# Koichi Iijima [1], Tatsuhiko Sakamoto [2]

[1] Earth and Planetary Sci., Hokkaido Univ, [2] Earth and Planetary Sci., Hokkaido Univ.

We revealed variations of clay minerals in two piston cores from the eastern Mediterranean Sea during 120 Ka. We studied and reconstructed a method of powder X-ray diffraction on clay fraction. Each process on sample preparation and orienting with Molybdenite as an internal satandard was carefully considered in the procedure of semi-quantitative clay mineral analysis. The fluctuations of relative content of smectite had been closely correlated with glacial-interglacial cycles and also kaolinite had been correlated with summer insolation curve during 120 Ka. On the other hand, chlorite reflects a frequency of turbidite occurring correlated with glacial eustacy. These variations should be as records of river discharge and/or precipitation related to African monsoonal change.