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APE031-P01

Room:Convention Hall

Time:May 25 10:30-13:00

Identification of three tephtras and oxygen isotopic stratigraphy of a piston core collected from north Emperor Seamount

Yonezu Naoto^{1*}, Masafumi MURAYAMA², Takuya MATSUZAKI², Hisashi NARITA³

¹Intergrated Science, Kochi Univ., ²Marine Core, Kochi Univ, ³Marine Science, Tokai Univ.

Three tephra layers were interstratified in a piston core taken from north part of Emperor Seamount, northwestern Pacific. These tephtras were identified by the chemical compositions of the volcanic glass and the reflective indices of glass shards and minerals. The eruption ages of three tephtras can be determined by the standard curve of oxygen isotopic stratigraphy from planktonic foraminifera.

Keywords: tephra, oxygen isotopic stratigraphy, Emperor Seamount, marine core