

# Stable isotope analysis of pollen grains for terrestrial paleoclimate reconstruction revisited

\*Yuichi Naito<sup>1</sup>

1. Japan Agency for Marine-Earth Science and Technology

Pollen grains in terrestrial sediments are used for estimating paleoenvironmental change through Quaternary period because of their well preservation. Stable isotopic composition of pollen has also been proposed as paleoclimate indicators such as temperature and humidity while the validity of this approach has been questioned. In this study, isotopic compositions of pollen obtained from several tree species in Japan were analysed for reevaluating the potential as paleoclimate indicator.

Keywords: stable isotopes, pollen, paleoclimate