

A Long-term pollen record of the C9001C core from the deep-sea bottom, off Shimokita peninsula, northeastern Japan

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We used a pollen analysis method for a deep-sea core to reconstruct paleoclimatic changes with the Milankovitch time scale.

In this study, we obtained a continuous pollen record and reconstructed paleovegetation and paleoclimate changes for the past several kyrs from the C9001C core, drilled from off Shimokita Peninsula.

We have applied the Modern Analogue Method to obtain a quantitative paleochimate reconstruction. In the results, a positive correlation has shown on between the paleotemperature parameter and the glacial - interglacial cycle. On the other hands, the summer precipitation parameter matches with the precession cycles but not with the glacial - interglacial cycles. The annual temperature parameter variability show strong negative correlation. These results are support hypothesis of the East Asia monsoon fluctuation mechanism

Keywords: pollen, monsoon, marine core