

## Sand grains deposited on submarine fan surface, western margin of the Kumano Trough

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Turbidite is an important record of a catastrophic event in land-ocean boundary. Although lots of researches have been carried out, we have not known enough what happens on a deep marine floor accompanying with attack of turbidity current.

The Kumano Trough, sited on southeast off the Kii Peninsula, would be one of the suitable areas for deposition of turbidite during Holocene based on its climatic and topographic conditions. We carried out surface deposit coring around submarine fans western margin of the Kumano Trough with the R/V Tansei, KT05-19 cruise for the purposes of sampling of a new turbidite and evaluating impact of turbidite deposition to deep marine environment.

Cores were mainly obtained with a multiple corer. Measurements of water-sediment temperature, concentration of dissolved O<sub>2</sub>, and other environmental parameters, core description, and sub-sampling were carried out.

No distinct sand layer was observed top of the cores. However, surface soft sediments of 6 cores obtained from western margin of the trough were rich in sand grains and plant debris. It may imply supply of sedimentary particles from land-shelf. Purpose of the KT05-19 cruise, coring and measurement on the R/V Tansei, characteristics of the cores, and preliminary result of bleaching percentage measurement of sandy grains will be shown.