

## Estimates on fluid migration and material recycling via offshore mud volcanoes

KIOKA, Arata<sup>1\*</sup> ; ASHI, Juichiro<sup>1</sup>

<sup>1</sup>Atmos. Ocean Res. Inst., U. Tokyo

About 300-400 offshore mud volcanoes are currently confirmed and the double is inferred. Mud volcanism can be viewed as a tectonic window to understand geological frameworks at much greater depth, since mud volcanoes bring up deep substances and fluids to seafloor and are consequently good tools to explore their migration mechanism. Herein we present a global catalog of offshore mud volcanoes and estimate their contributions to subsurface fluid migration and material recycling.

Keywords: Submarine mud volcanoes, fluid migration, material recycling, overpressure