**Bottom water concentrations** TOC, O<sub>2</sub>, NO<sub>3</sub>, SO<sub>4</sub>, NH<sub>4</sub>, H<sub>2</sub>S, PO<sub>4</sub>... **OMEN-SED cGENIE** 30 atitudenitrate reduction 0 sulfate reduction -30 nethanogenesis -60 -90 Mineralization -180-90 90 180 Longitude

TOC burial, SWI fluxes O2, NO3, SO4, NH4, H2S, PO4...