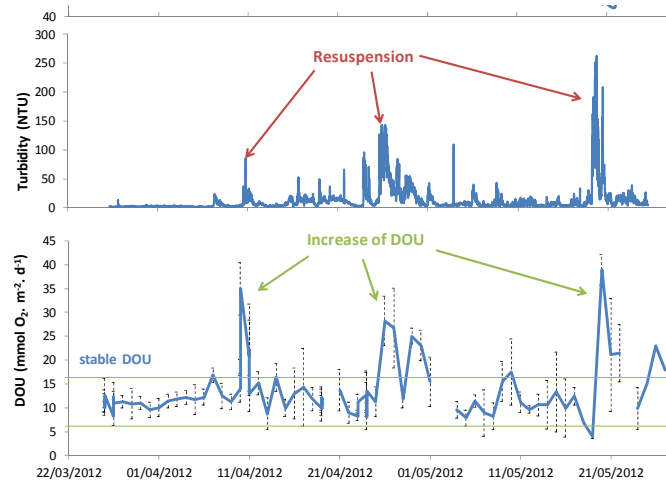


TEMPORAL VARIABILITY OF CARBON RECYCLING IN DELTAIC SEDIMENTS AT DIFFERENT TIMESCALES (FROM HOUR TO DECADE): AN EXAMPLE IN THE RHÔNE PRODELTA

C. Rabouille¹, F. Toussaint¹, C. Cathalot¹, B. Bombled¹, **J. Rassmann¹**, B. Lansard¹, A. Abchiche², N. Tinérat-Laborde¹, J-L. Reyss¹, P. Raimbault³, I. Pairaud⁴

Carbon recycling and oxygen dynamics are linked by bacterial respiration
Use of in situ oxygen monitoring in sediment porewater

Short-term variations (hours to days)



Rapid increase of oxygen demand during resuspension events

Long-term variations (month to years)

Based on 14 cruises over the last 10 years

