

Biogeochemistry of porewater in boreal sandy beach

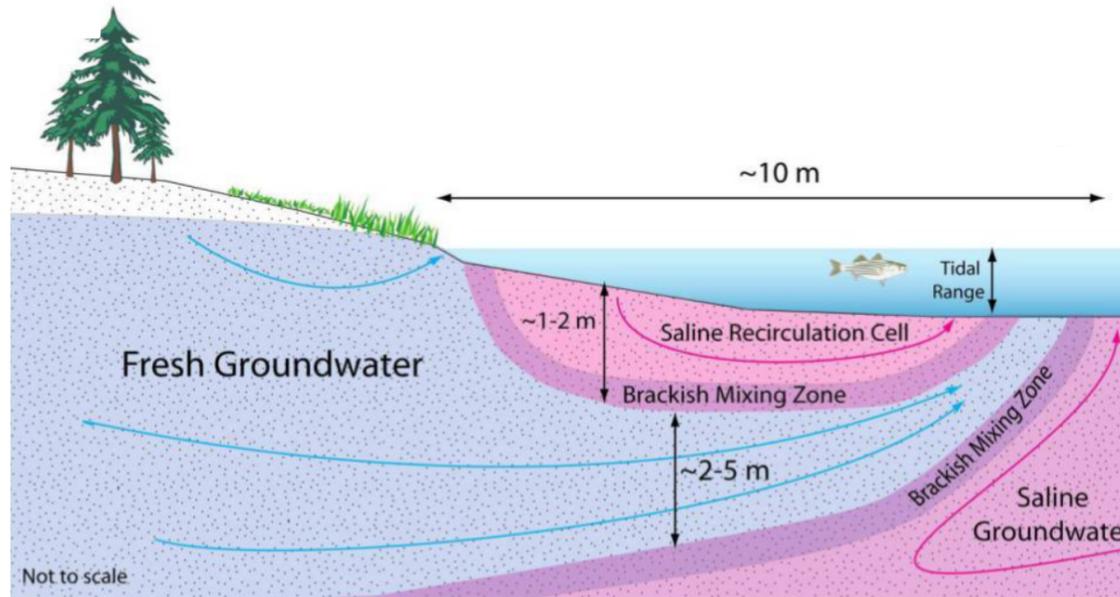


Poster on Monday

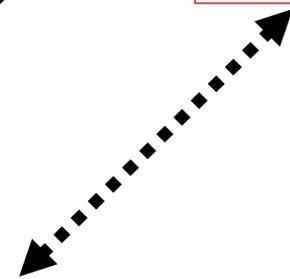
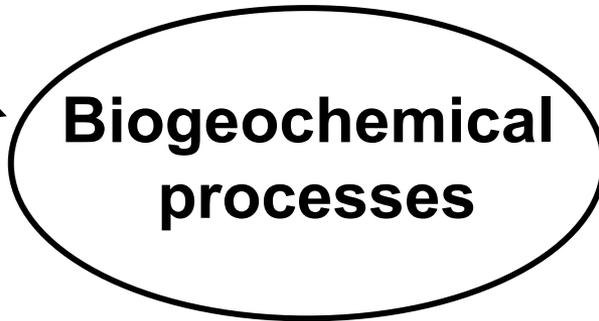
**Carbon dynamics at the land-ocean interface
through a boreal subterranean estuary**

Mathilde Couturier

Maude Sirois, Christian Nozais, Gwénaëlle Chaillou



Hydrogeology

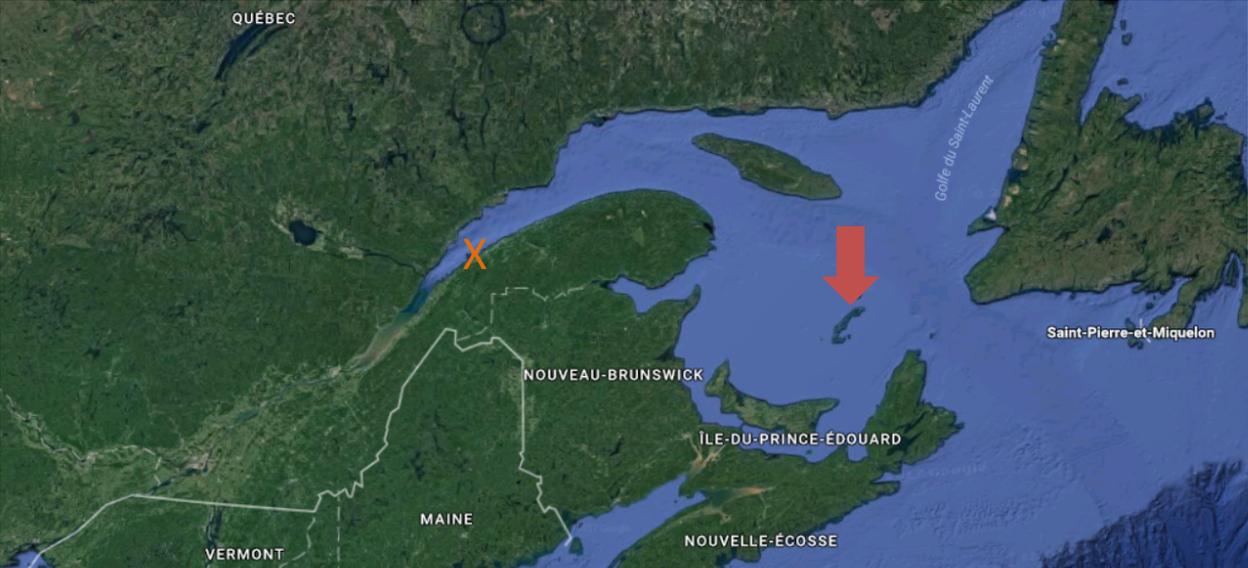


Origin and composition of organic matter inputs



Study site

Iles de la Madeleine, Québec, Canada



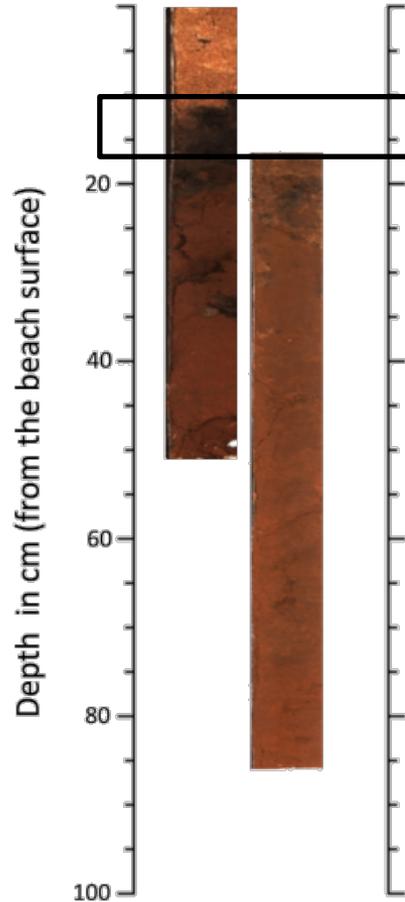
March



June



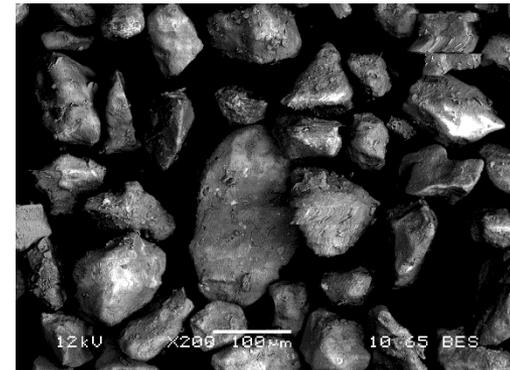
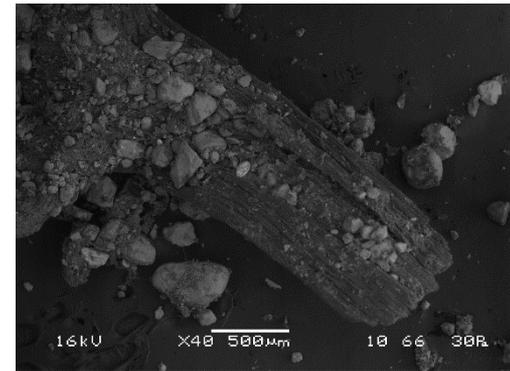
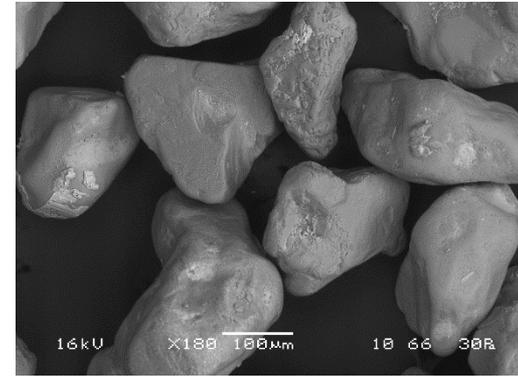
Characteristics



Surficial sand
K=11,4m/d
0,4% Ct
0,2% N

Organic horizon
25% Ct
0,8% N

Sandstones
K=4,8m/d
0,5% Ct
0,2% N



Carbon dynamics at the land-ocean interface through a boreal subterranean estuary

- What is the composition and the origin of organic matter through the STE

optical (CDOM) and isotopic ($\delta^{13}\text{C}$ -DOC) approach

- Link the organic matter origin and composition to the free bacteria abundance and diversity

