

# ATLANTIC COASTAL RESILIENCE

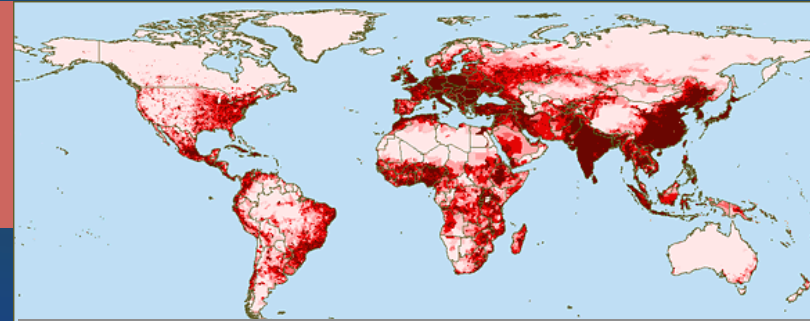
## Human concentration intensifies climate impacts

### Concentrations of ...

- ✓ population
- ✓ commerce
- ✓ recreation
- ✓ pollution

### Climate effects on coastal regions

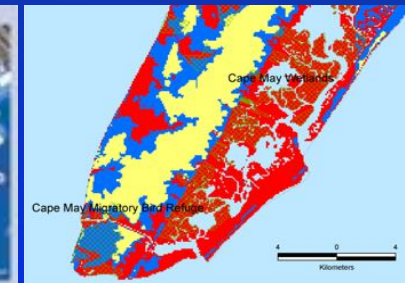
- ✓ Increased air and water temperature
- ✓ Sea level rise
- ✓ Meteorological events – storminess, wind patterns
- ✓ Altered chemistry – ocean acidification, increase N loading
- ✓ Changes in the hydrological cycle and water balance



Human Population



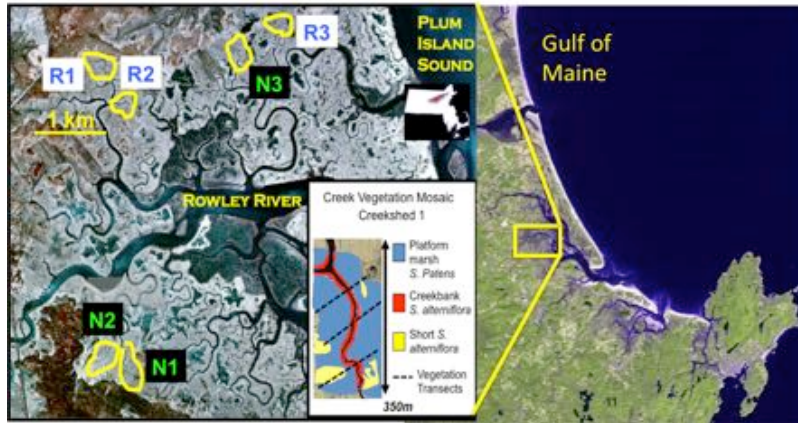
Loss of Habitat



# Nitrogen Loading Amplifies Climate Effects

Linda Deegan, David Johnson, Jimmy Nelson et al.

## The TIDE Project



Landscape Change

## BLUE CARBON

SINK

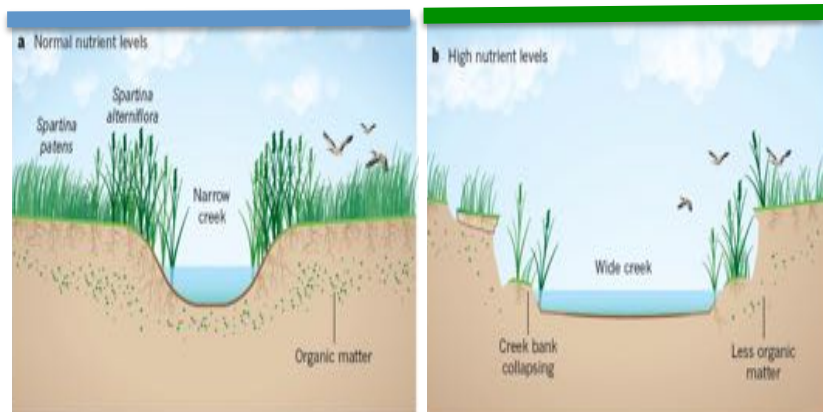
-450

SOURCE

120

$\text{g C m}^{-2} \text{ yr}^{-1}$

Mozdzer et al. submitted



REFERENCE

NUTRIENT



REFERENCE



NUTRIENT