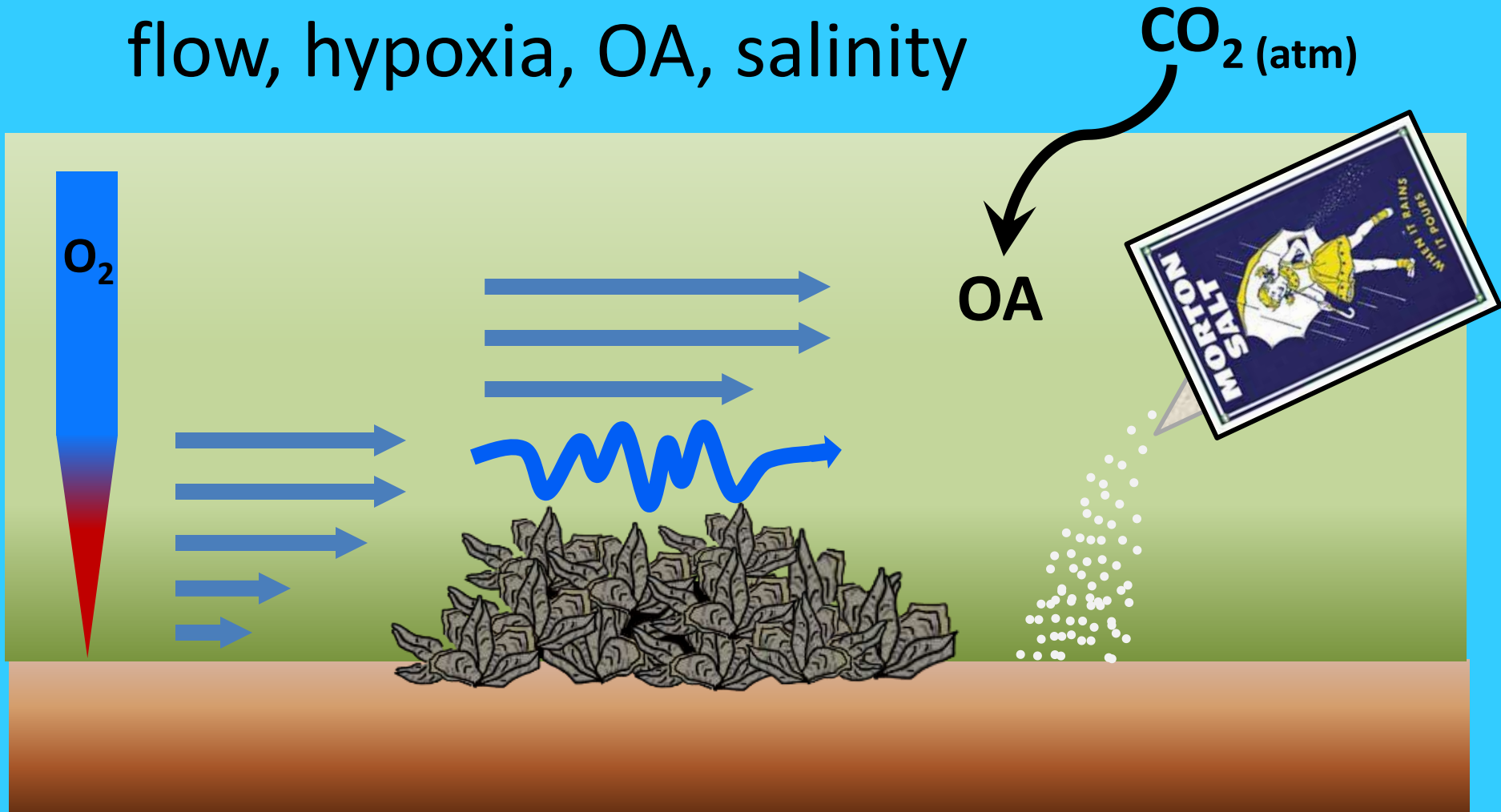


# Recent UNC-CH Institute of Marine Sciences Oyster Research & Restoration Projects



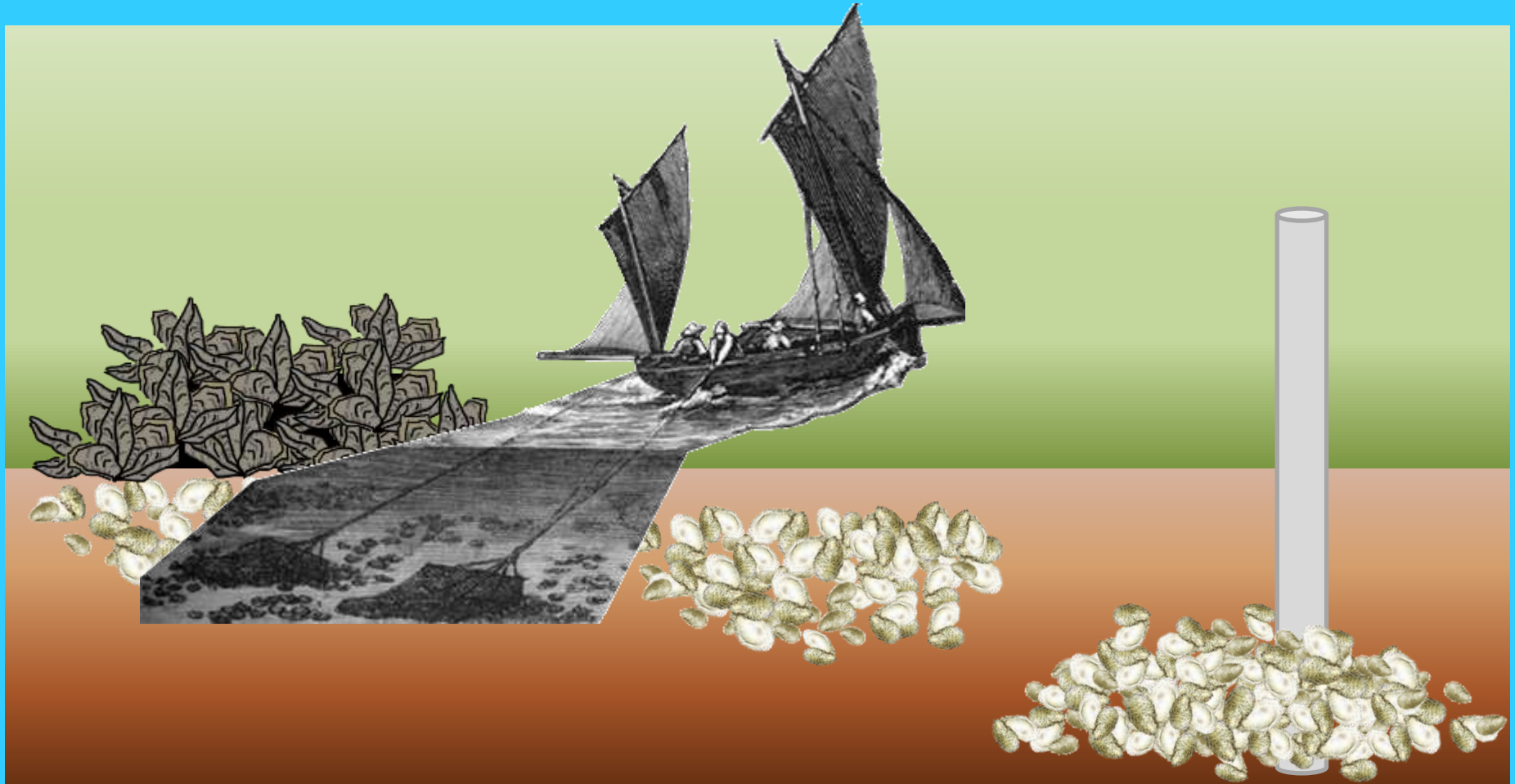
Niels Lindquist – the messenger

# Environmental Controls – flow, hypoxia, OA, salinity

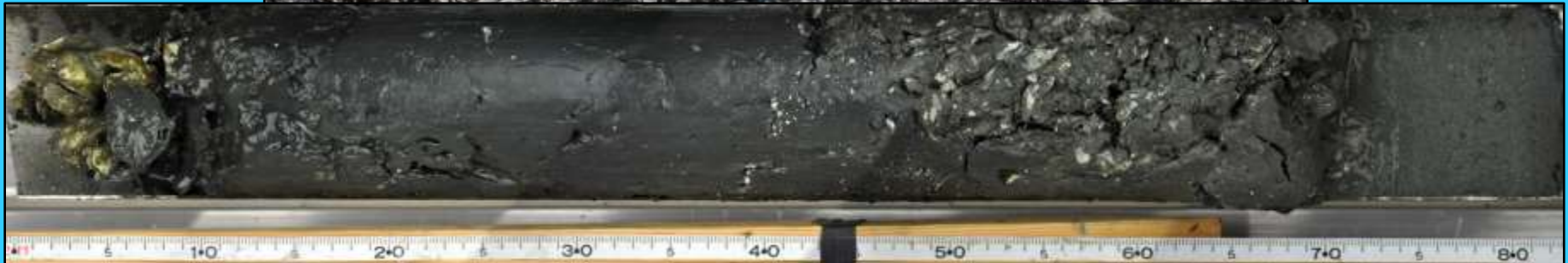


Peterson & Lenihan; Rosman; Piehler & Ries;  
Lindquist & Fegley

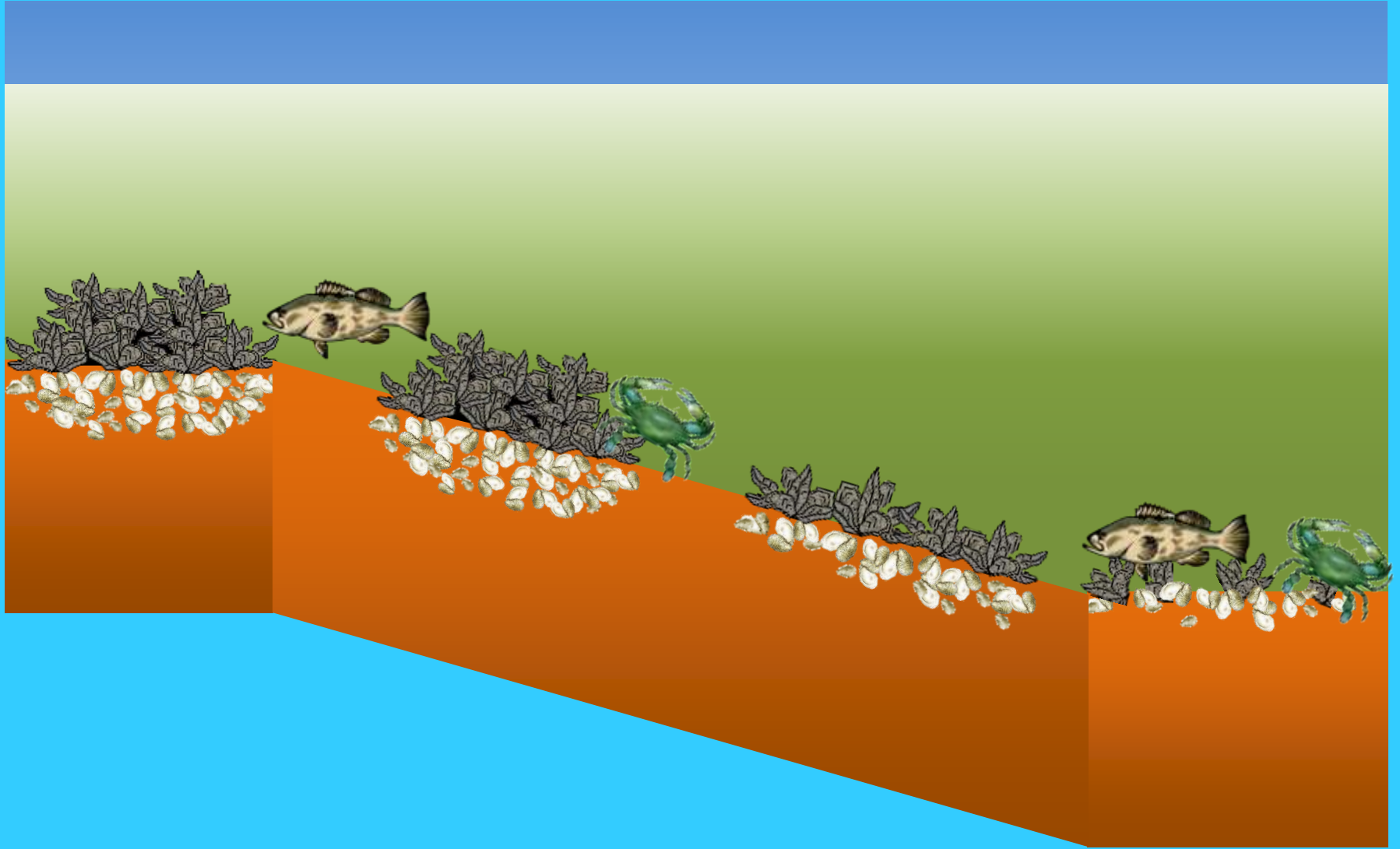
# Historical Aspects decadal, centennial, millennial



Peterson & Lenihan et al.; Lindquist & Fegley;  
Rodriguez & Fodrie

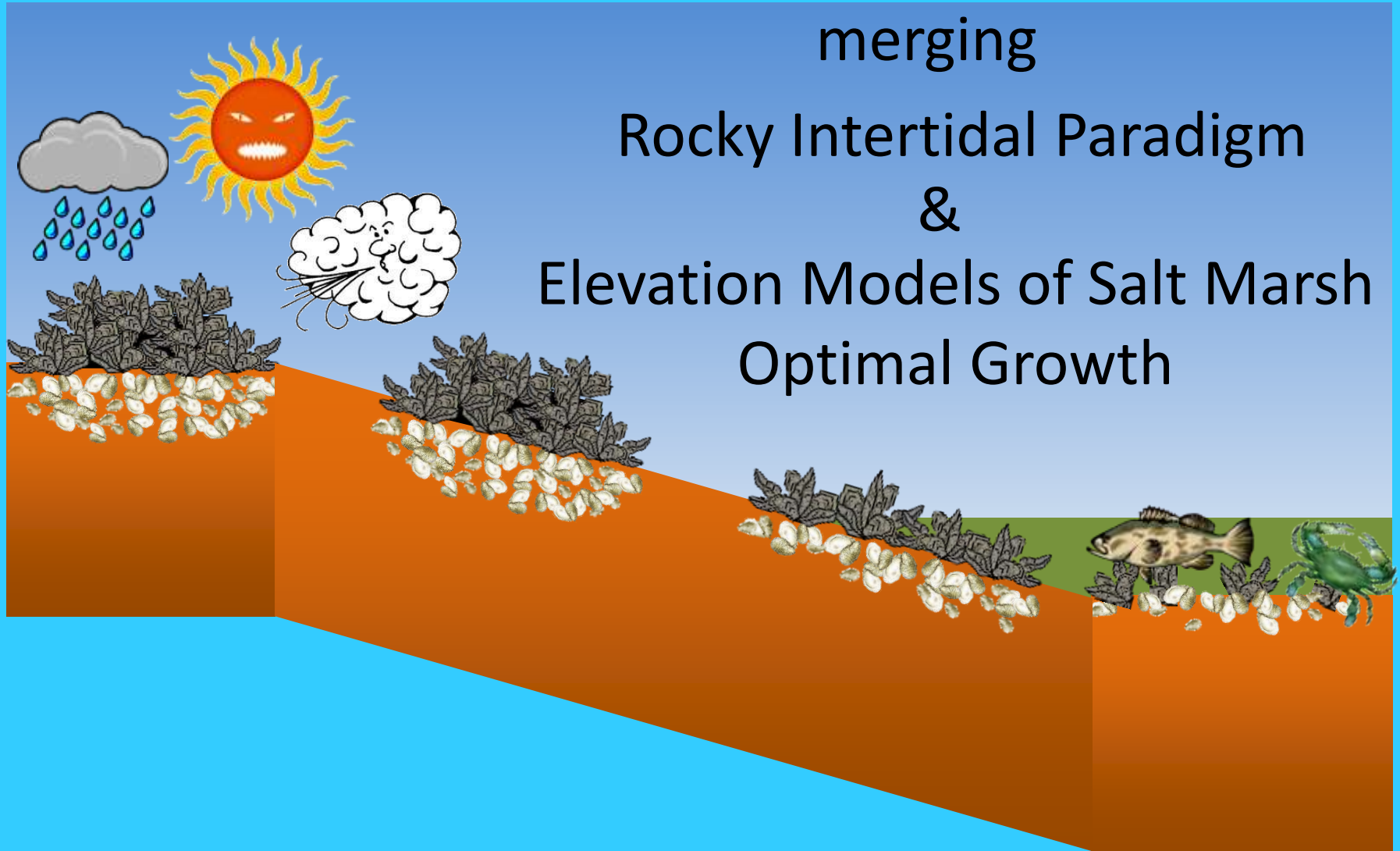


# Ecology – Intertidal Reefs



Fodrie, Rodriguez, Lindquist, Grabowski et al.

# Ecology – Intertidal Reefs



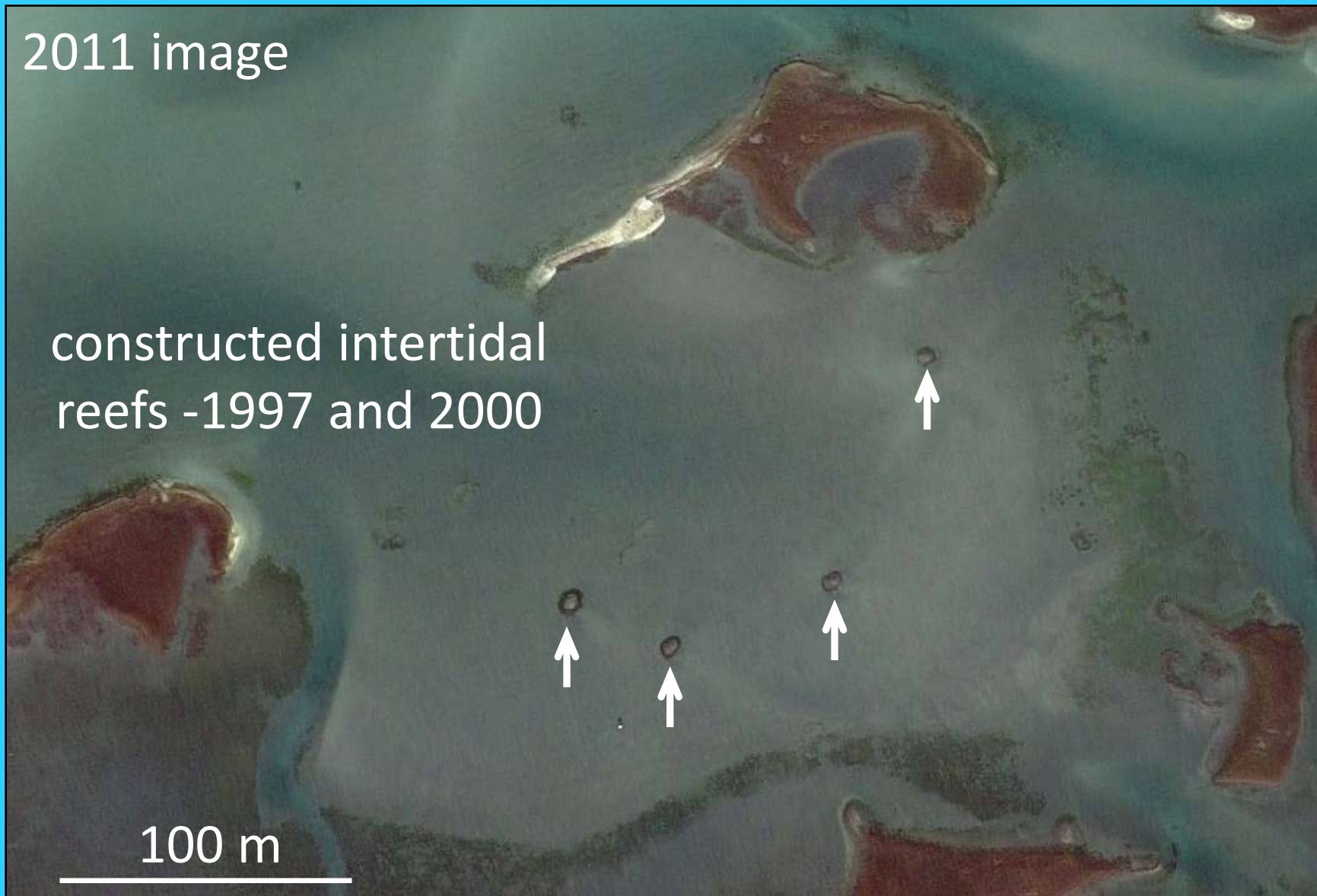
Fodrie, Rodriguez, Lindquist, Grabowski et al.

# Middle Marsh, Back Sound – Peterson & Grabowski

2011 image

constructed intertidal reefs -1997 and 2000

100 m



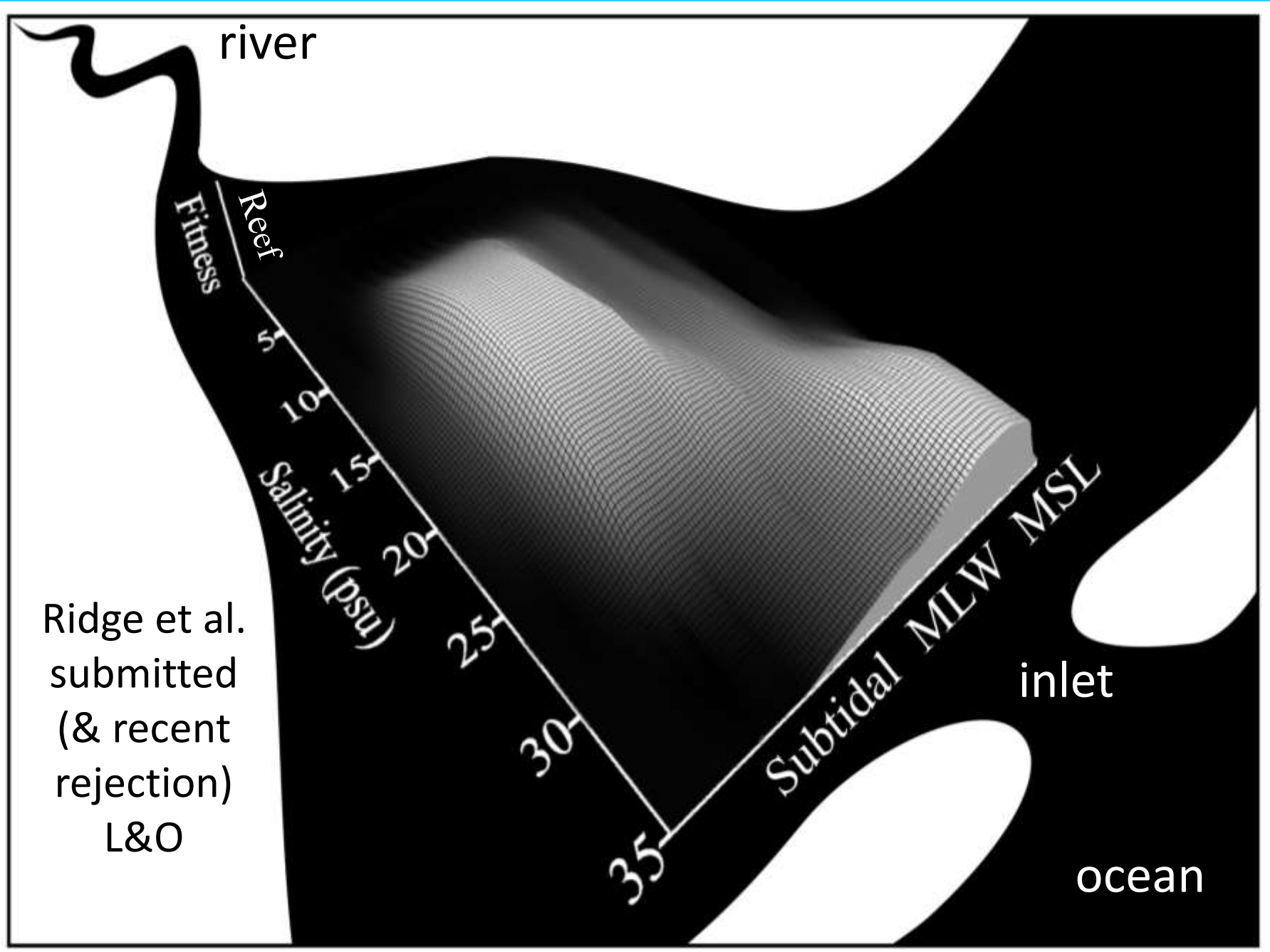
# Middle Marsh, Back Sound – Fodrie, Rodriguez & Lindquist

reefs constructed May 2011

100 m

An aerial photograph showing a large, light-colored, irregularly shaped area in the center of a darker, greenish-brown marsh. This area represents the reefs constructed in May 2011. The surrounding marsh is a mix of light and dark green, indicating varying vegetation density. A white horizontal line at the bottom left of the image indicates a scale of 100 meters.

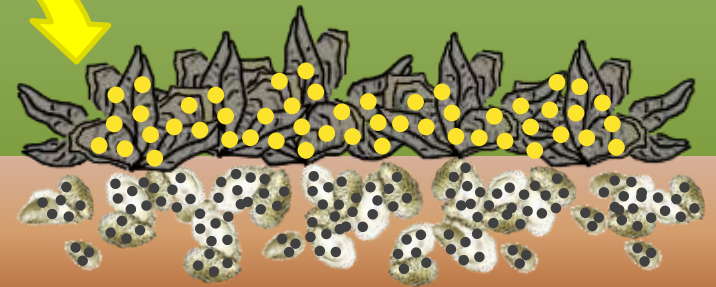




# Bioerosion



Clionid sponges

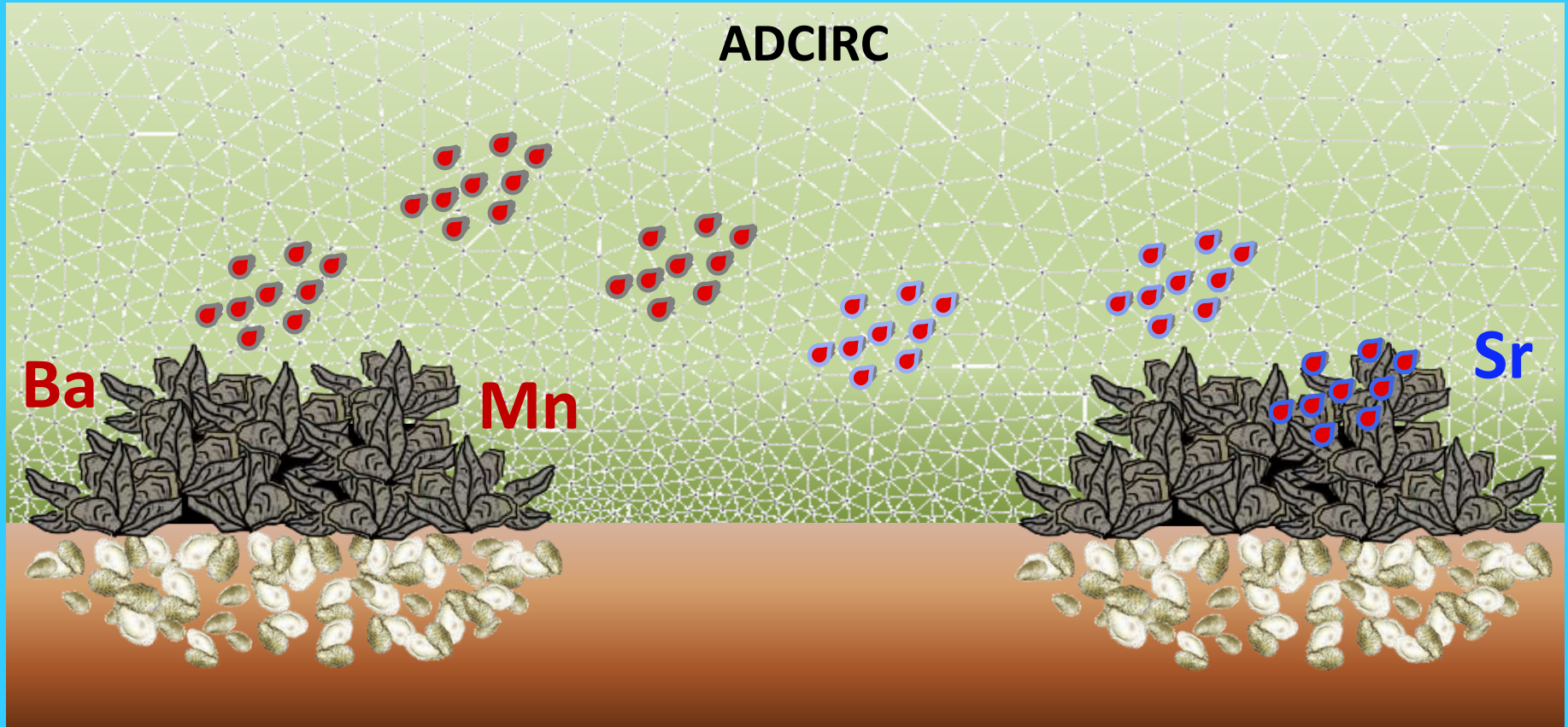


Lindquist & Fodrie; Lindquist & Eggleston

# Population Connections, Recruitment

riverine

ocean



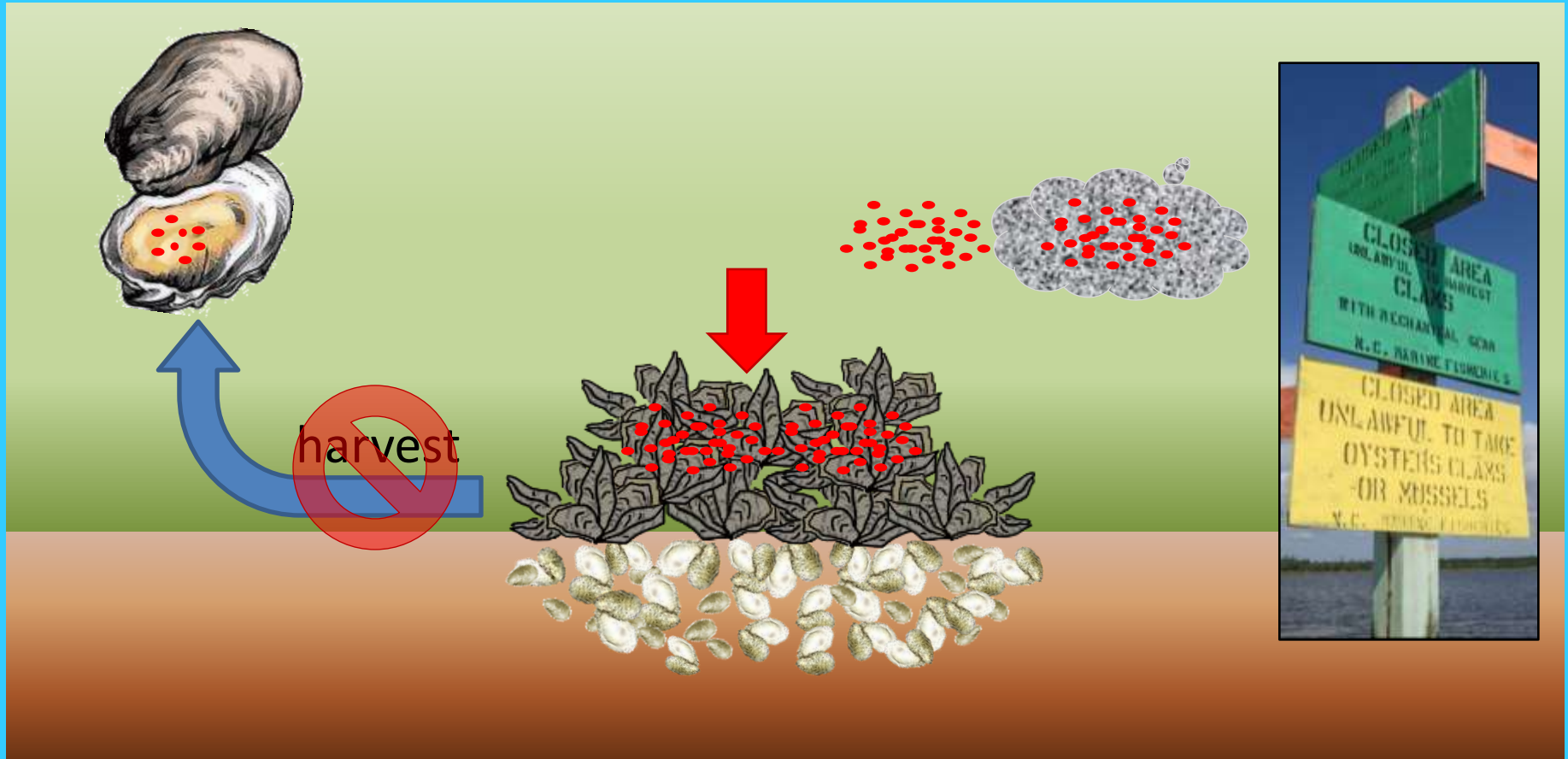
Fodrie, Luettich & Eggleston; Fodrie & Rodriguez; Peterson; Lindquist



# Human Health

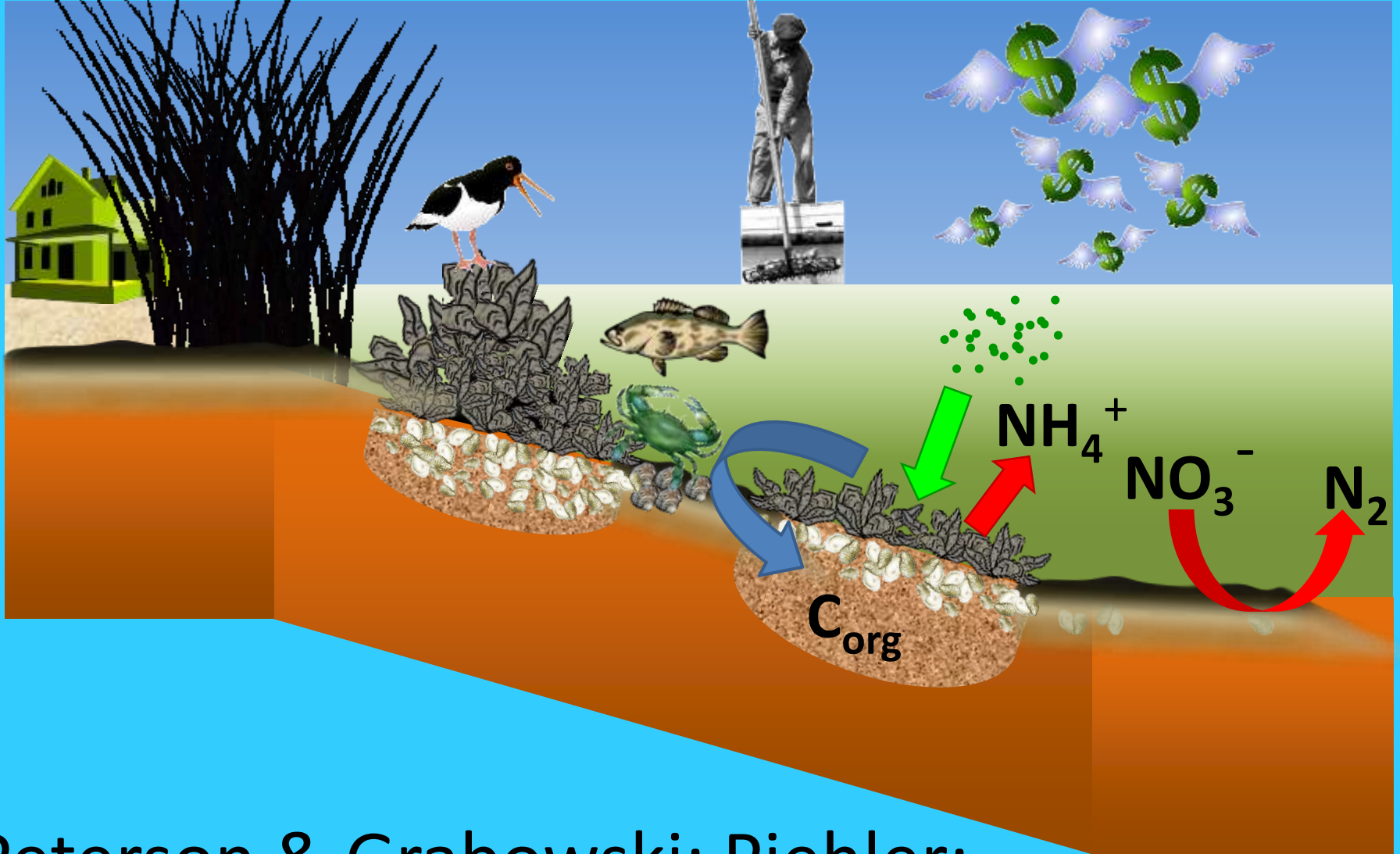
riverine

ocean



Noble et al.

# Ecosystem Services



Peterson & Grabowski; Piehler;  
Fodrie; Rodriguez; Lindquist

# Restoration – using science to build successful reefs



Peterson; Fodrie, Rodriguez, Lindquist; Fodrie & Lindquist, Lindquist & Eggleston; Piehler



~1 year later





# Middle Marsh





# Middle Marsh



# Newport and North River Estuaries





multiple  
aries



multi  
tida  
cree