

An equilibrium profile model for retreating marsh shorelines in southeast Louisiana

Abstract:

To combat the worst wetland loss rates in the US, Louisiana has earmarked billions towards sediment diversion projects in Barataria Bay and Breton Sound over the next decade. Baseline conditions for long-term vertical accretion in the wetlands of Barataria Bay will be presented along with the capture efficiency of the marshes under present conditions in the hopes of informing coastal managers and restoration strategies.

In addition, the Wilson lab is investigating the sustainability of the Ganges-Brahmaputra delta, one of the largest in the world in terms of sediment discharge and human population density. Some highlights of recent projects and similarities to Louisiana will be shared as well.

Biography

BS University of New Orleans in 2001 (biology + chemistry)

MS Tulane University in 2006 (geology Advisor: Mead Allison; thesis LA wetland erosion, fate of subaqueous platforms)

PhD Boston University in 2013 (earth science Advisor: Duncan FitzGerald; dissertation ecogeomorphic processes in New England and mid-Atlantic salt marshes)

Post doc Vanderbilt University 2013-2015 (Advisor: Steve Goodbred; geology of the Ganges Brahmaputra delta)

Assistant Prof at LSU Geology 2015-present

When not slogging around in the mud, she also enjoys slogging over mountain ranges and beaches.