Novel Biogeochemical Regimes in Coastal Wetlands: Saltwater Intrusion Meets Fertilizer Legacies

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3204 Murray Hall & Broadcasted to IMS 222

To schedule a meeting with Dr. Ardón, please contact Catie at calves06@live.unc.edu
Title:
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Abstract:
Coastal wetlands provide important ecosystem services such as flood protection, nutrient transformation, and carbon sequestration. Due to their position in the landscape, coastal wetlands are particularly vulnerable to increased salinization exacerbated by local land use change and sea level rise. While there has been considerable research on the effects of increased salinity on wetland vegetation, the effects on wetland biogeochemical processes remain unclear. In this seminar I will discuss ongoing work examining the response of natural and restored coastal wetlands to changes in flooding, saltwater intrusion, and nutrient loading. My results suggest that salinization and other stressors can have nonlinear negative effects on coastal wetlands with local and global consequences.