

Title: Tidal Wetland Flux Network: Plans and Progress

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BER Program: Environmental System Science

Project: University project

Project Abstract:

Abstracts should include information on objectives of the research, recent progress, and key findings of the project

High-frequency Data Integration for Landscape Model Calibration of Carbon Fluxes Across Diverse Tidal Marshes

We aim to improve understanding and assist process-based modeling of ecosystem-scale gross primary productivity (GPP) and CH₄ fluxes. Using a network of seven eddy covariance flux tower sites, we will investigate both nonlinear and asynchronous responses to stressors including plant inundation, disturbance, salinity, and nitrogen loading in tidal wetlands at the tidal aquatic interface.