



NExUS Ongoing Projects and Activities Thu Nov 23 09:49:59 EST 2017

Name	Delaware Coastal Impoundment Accretion Rate Study
Description	From the Delaware SLR Initiative Compendium: This study will provide information to coastal managers regarding marsh susceptibility to sea level rise under different marsh management scenarios and under different sea level rise scenarios. A long-term comparison of the wetland elevation and sedimentation conditions between the impounded marsh and the “natural” marsh will enable a detailed analysis and comparison of the potential long-term growth conditions and highlight the potential implications for impoundment management that could affect the sustainability of the interior wetlands. This information will allow marsh managers to understand the potential outcomes of sea level rise and adapt their management techniques. Correlating longterm wetland sedimentation rates to current wetland elevation will enable a detailed analysis of the potential sedimentation deficits that exist within the impoundments, as compared to the reference wetlands. The elevation and sedimentation gradients between the reference and impounded wetlands can be used to calculate potential future elevation trajectories under different sea-level rise and management scenarios.
Category	- Research
Sector	- Natural Ecosystems
Focus Area	- Coasts and Climate Resilience (including sea-level rise)
Region	- Regional Or State -- Mid-Atlantic
Lead Agencies	DNREC Delaware Coastal Programs; UD College of Earth, Ocean and Environment; Primehook National Wildlife Refuge (US Fish and Wildlife Service); and DNREC Division of Fish and Wildlife