



<b>Name</b>	<b>Bombay Hook Hydrology/ Sediment Movement Study</b>
Description	<p>From the September 2011 Compendium: Coastal areas and natural resources are particularly vulnerable to climate change, especially with respect to accelerated sea level rise, shoreline erosion, increased storm frequency and intensity, changes in rainfall, and related flooding among other potential impacts. Investigation of such impacts, specifically marsh depletion and increased mudflats at Bombay Hook, will be conducted to determine patterns of sediment flux in or out of the depleted marsh area. Data collection will involve conducting river transects within the Leipsic River using the Acoustic Doppler Current Profiler (ADCP) and associated software to collect and process tide and current data. Water quality will also be monitored, specifically total sediment solids (TSS) to aid in determining sediment fluxes in or out of the depleted marsh area.</p> <p>This study will result in a written report that includes a summary of results; discussion of data analysis and statistical procedures. Results will be used to predict future changes in marsh depletion and to help determine marsh management techniques to counteract these impacts affecting the tidal marshes at Bombay Hook.</p>
Type	- DATA: Surveys and Preliminary Assessments
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, US Fish and Wildlife Service