



Name	Assessment of LIDAR for Simulating Existing and Potential Future Marsh Conditions in Casco Bay
Description	"For this project, the Maine Geological Society (MGS) simulated the impacts of sea level rise on tidal inundation levels, and also used tidal elevations as proxies for existing coastal wetland boundaries. These tidal elevations were calculated by MGS using NOAA NOS Tide Charts (NOS, 2009a), and benchmark data sheets for Portland, Maine (NOS, 2009b). LIDAR raster data was used to create simulations of both existing marsh conditions, and potential future marsh conditions after sea level rise. Analysis was done for Cousins River, Yarmouth; BAcK Cove, Portland; and Thomas Bay, Brunswick. "
Type	<ul style="list-style-type: none"> <li>- DATA: Depth and Elevation Data</li> <li>- PRODUCTS: Projections (intra-annual to multi-decadal, including SLR and model down-scaling)</li> <li>- PRODUCTS: Maps (Imagery, geo-referenced data)</li> </ul>
Sector	- Natural Ecosystems
Focus Area	- Coasts and Climate Resilience (including sea-level rise)
Region	- Regional Or State -- New England
Lead Agencies	Casco Bay Estuary Partnership and Maine Geological Survey
Contacts	Peter A. Slovinsky, Coastal Geologist, Stephen M. Dickson, Marine Geologist