



Jennifer Berlinghoff, B.S.

Coastal GIS analysis
Analysis of regional geomorphic change
Present and compile bathymetric maps

YEARS OF EXPERIENCE	1 (1 with Applied Coastal)
EDUCATION	B.S., Environmental Studies, University at Buffalo, 2009
PROFILE	Ms. Berlinghoff has recently graduated from college with a Bachelor in Environmental Studies and a minor in Geography: Earth Systems Science. Her coursework included, but was not limited to, classes in Geographic Information Systems, Maps & Mapping, Water Quality, Climatic Geomorphology, Soil Science, Field & Lab Techniques, Field Ecology, Environmental Chemistry, and an internship for the Erie County Soil & Water Conservation District in East Aurora, NY.
RELEVANT EXPERIENCE	<p>Wave Action and Sediment Transport Modeling Effort for the Oak Bluffs Shoreline. Ms. Berlinghoff obtained and analyzed historical shorelines in ARCGIS for the Oak Bluffs, Martha's Vineyard region. This consisted of georeferencing historical topographic sheets and digitizing the shorelines, as well as digitizing shorelines from more recent orthoimagery, using LIDAR data. These shorelines were then overlaid onto 2005 orthoimagery and the change was examined.</p> <p>The Effect of Jetties and Other Coastal Structures on Shorelines in Lake Montauk, New York. Historical shorelines were obtained and analyzed. Shoreline change was calculated with ASAP and displayed on a map. Conclusions were then made about the effects of the harbor jetties on the beaches; littoral transport of sediment was halted by the east jetty, leading to accretion on that side. Erosion then occurred on the beaches west of the west jetty due to the blocking of the long-shore sediment transport.</p> <p>Dredging Histories for North Pacific Harbors. Ms. Berlinghoff compiled dredging histories for Grays Harbor, Washington and Coos Bay, Oregon, focusing on outer bar and entrance channels. The information was extracted from USACE annual reports dating back to 1878 and organized. Graphs were made to display quantities dredged. This information is useful in determining sediment budgets.</p>