

## New Jersey Sea Level Rise and Coastal Inundation Mapper

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While sea level rise is a world-wide phenomenon, mitigating its impacts is a local decision-making challenge and is going to require site-specific remedies. Through their land use planning, development and management decisions, local decision-makers will greatly influence future impacts of sea level rise and global climate change. Faced with a variety of conflicting mandates and uncertainty as appropriate responses, local land use planner and managers need from place-based decision support system tools. To address these needs, we have developed the New Jersey Sea Level Rise and Coastal Inundation Mapper ([www.NJFloodMapper.com](http://www.NJFloodMapper.com)) to help decision-makers visualize the vulnerability of key infrastructure within their communities to sea level rise or storm surge. The project has three main outcomes: 1) enhanced GIS/LiDAR-based assessment of coastal infrastructure and habitat vulnerability to sea level rise; 2) worked with user groups to develop a suite internet-accessible, user-friendly mapping and visualization tools to meet their identified needs; and 3) extensive outreach to local communities to promote enhanced preparedness and land use planning decisions in the face of continued sea level rise. The project is a collaboration between the Rutgers University Center for Remote Sensing & Spatial Analysis (CRSSA), the Jacques Cousteau National Estuarine Research Reserve (JC NERR), and the NOAA Coastal Services Center.