

Engineering With Nature Case Examples of Practice

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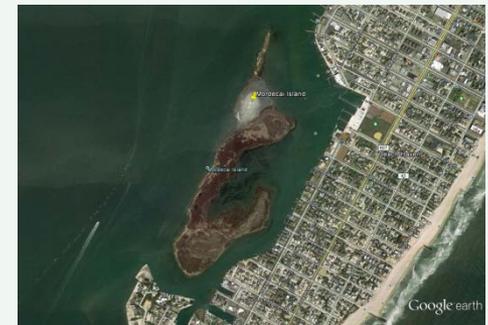
Organizational Perspective

- NOAA Fisheries Mandates
 - Stewardship, conservation, protection and management
- Tools – MSA, FWCA, interagency coordination
- Support use of natural and nature based solutions



Current Projects

- Successes are currently few
 - Craney Island living shoreline
- Looking good
 - Mordecai Island, NJ
- Jury is still out on many
 - Fortescue, NJ
 - Avalon/Stone Harbor, NJ
- Lost opportunities
 - Revetment – Hull, MA
 - Delaware Bayshore wetlands



Significant Outcomes/Value Produced

- Improve fisheries habitat
 - Ecosystem services
 - Economic benefits



- Increased resiliency

Challenges

- Funding
 - Extra costs to construct environmentally beneficial projects
 - Funding for site screening, appropriate pre-construction/pre-design surveys, and post-construction monitoring.
- Selecting appropriate sites/methods
- Balancing ecological trade offs



Future Opportunities

- Increased collaboration with Corps
 - Site selection and monitoring protocols
- Wetland restoration
- Increasing ecological value of hardened shoreline stabilization structures
- Living shorelines

