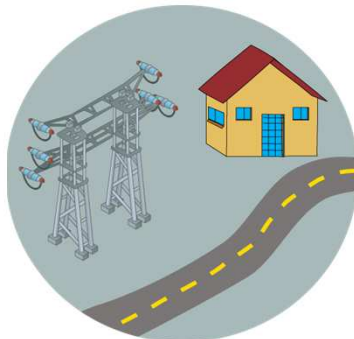
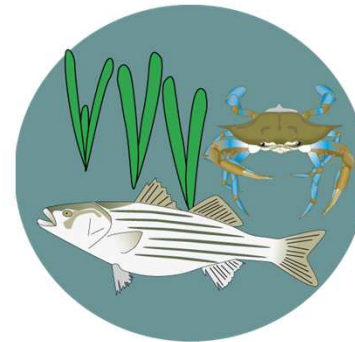


Economy, Society and Environment: April 2018 MCCC – ARWG Highlights



Varied sectors

Varied partners

Building Resiliency through Restoration

Nicole Carlozo

Chesapeake & Coastal Service

Initiative Components



1. Targeting

- Identify vulnerable coastal communities
- Identify locations where nature can help reduce risk

2. Coastal Resiliency Grant Program

- Technical and financial assistance
- Protect residents, economies, infrastructure and public resources.

3. Innovative Climate-Resilient Designs

- Tidally influenced sites (SLR, marsh migration, storm surge, etc.)
- Non-tidal/inland sites (Precipitation, streamwater flow, etc.)

4. Monitoring for Maintenance & Adaptive Management

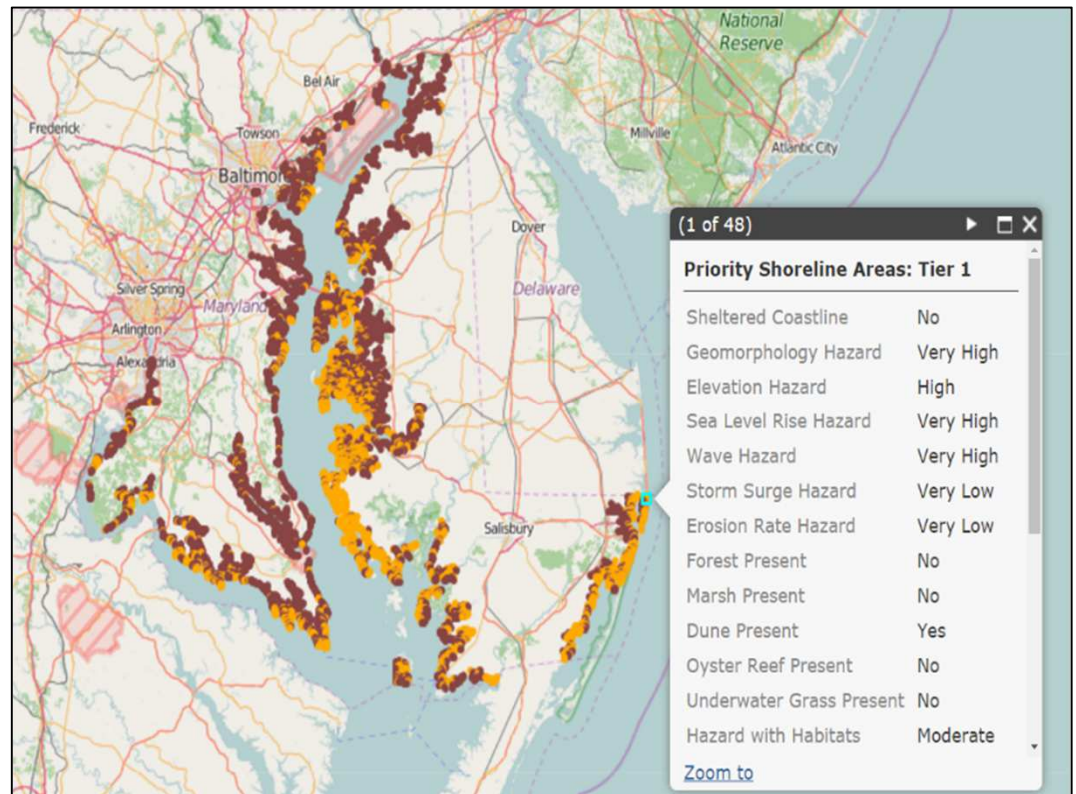
- Identify physical, chemical and biological metrics
- Improve design with changing conditions

5. Outreach, Communication & Education

Targeting Nature-Based Shoreline Solutions



- **Tier 1 Shorelines (Orange)**
 - High Habitat Role
 - Conserve/Maintain/Enhance
- **Tier 2 Shorelines (Brown)**
 - Moderate Habitat Role
 - Evaluate/Restore

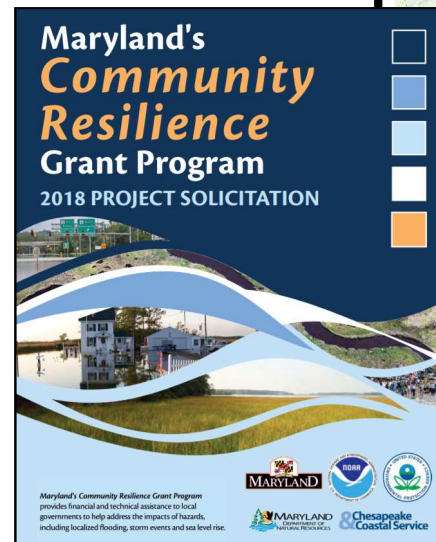
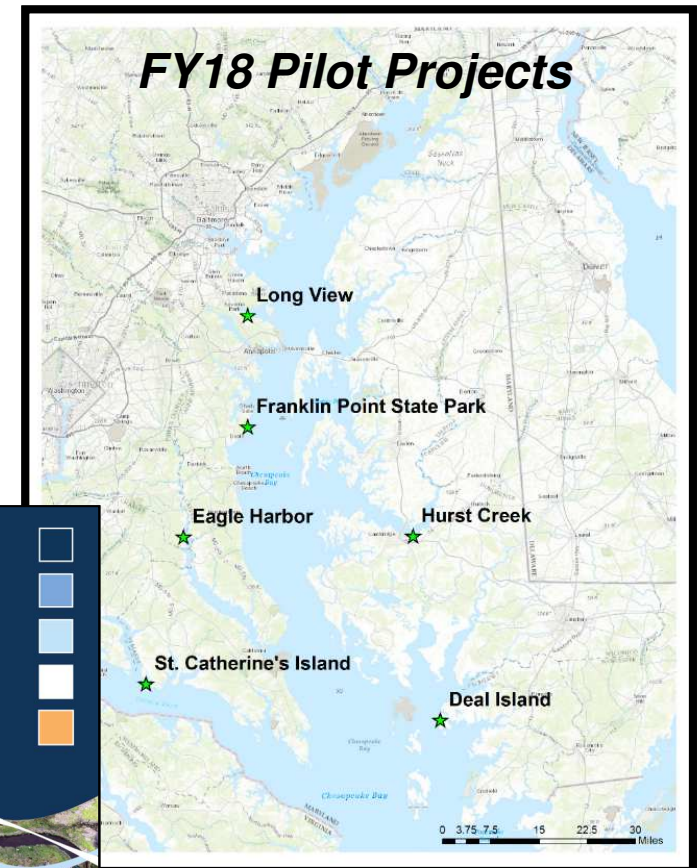


dnr.maryland.gov/ccs/coastalatlus/

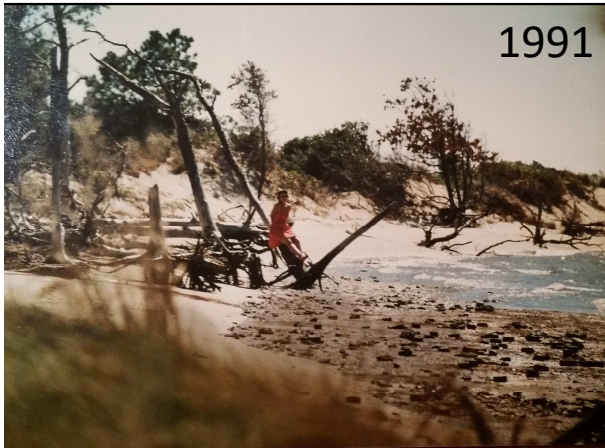
Coastal Resiliency Grant Program



- **Eligible Projects:**
 - **Year 1:** Natural and nature-based shoreline stabilization and coastal flood reduction projects.
 - **Year 2:** Expansion to upland/non coastal communities with stormwater and/or floodplain climate impacts
- **Community Resilience Grant Solicitation**
 - Phase 3: Implementation
 - 22 requests (over \$1.6 M)
 - Design/permitting
 - Future funding: construction, adaptive management



Innovative Designs, Monitoring and & Outreach



1991

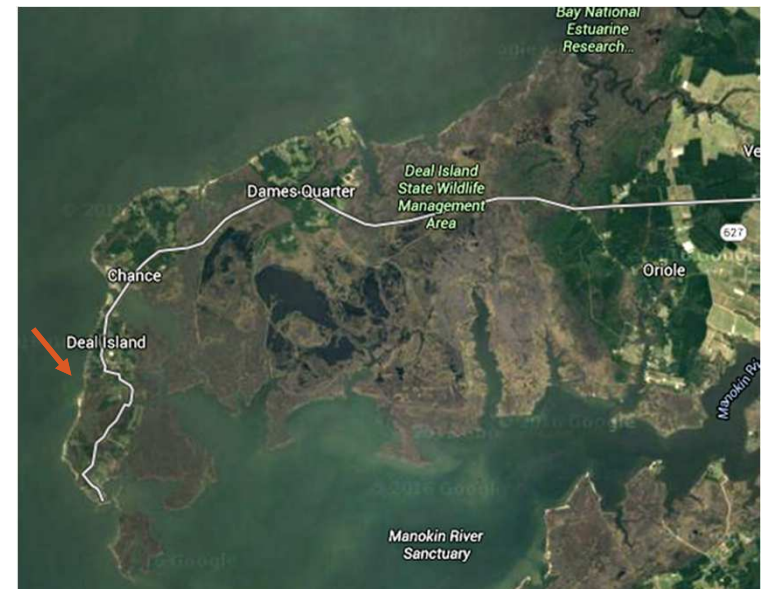


2014



2018

- Somerset County
- Deal Island Shoreline and Marsh Enhancement
- Dune restoration, submerged breakwaters, invasive species removal
- Deal Island Peninsula Project
- CBNERR and GMU/TNC Monitoring partnership



More Information



Resiliency through Restoration

<http://arcg.is/1Gaquy>

Contact:

nicole.carlozo@maryland.gov

410-260-8726

Community Resilience Grants

<http://dnr.maryland.gov/ccs/Pages/funding/fundingopp.aspx>

Coastal Resiliency Assessment

<http://dnr.maryland.gov/ccs/coastalatlas/Pages/CoastalResiliencyAssessment.aspx>