

Virginia CZM Investments & Opportunities in Coastal Resilience/Flood Preparedness



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June 28, 2023

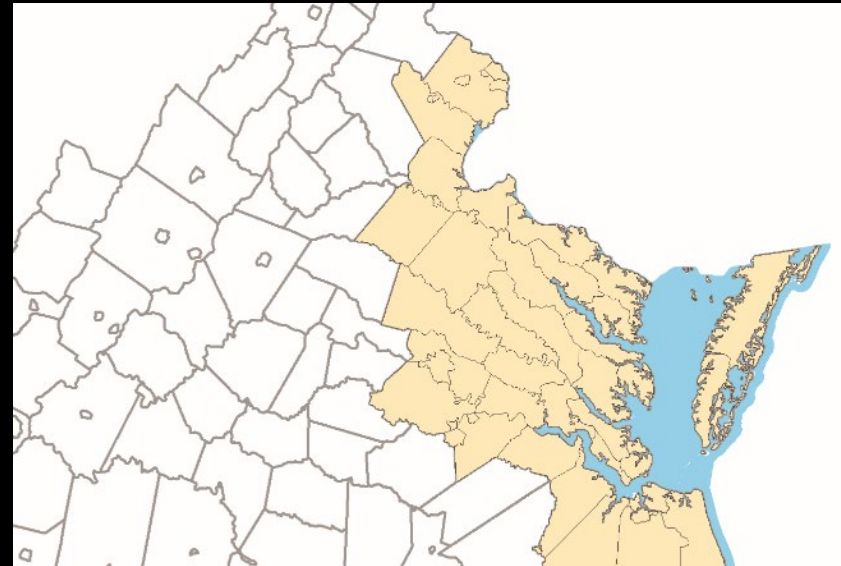


Virginia Coastal Zone
MANAGEMENT PROGRAM

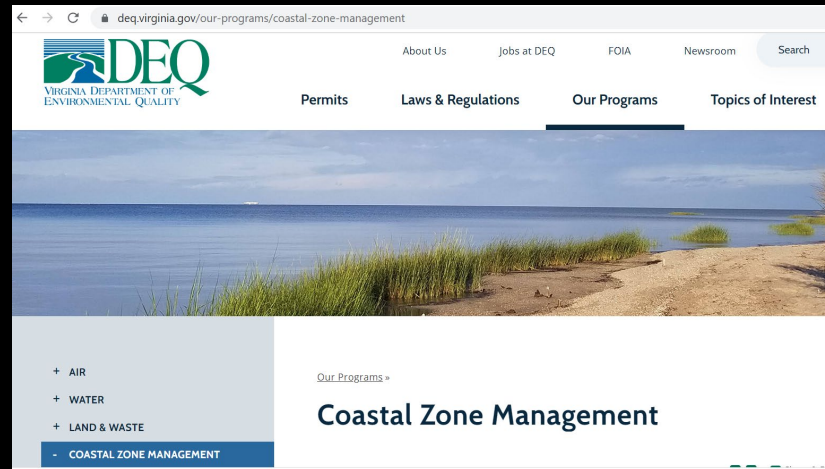


What is the Virginia CZM Program?

- Network of state agencies and coastal localities
- Guided by the inter-agency Coastal Policy Team led by CZM staff at DEQ
- All the coastal laws and policies incorporated into the program and approved by NOAA
- Funded 100% by NOAA with ~ \$3M per year for grants



<https://www.deq.virginia.gov/our-programs/coastal-zone-management>





**SHORELINE
SANITATION**
VDH

DUNES & BEACHES
*MRC &
Local Wetlands
Boards*



**SUBAQUEOUS
LANDS**
MRC

**AIR
POLLUTION**
DEQ

**VIRGINIA
CZM
PROGRAM**
*(DEQ - LEAD
COORDINATING
AGENCY)*

MARINE FISHERIES
MRC



**TIDAL AND
NONTIDAL
WETLANDS**
*MRC, DEQ &
Local
Wetlands
Boards*



**POINT AND
NONPOINT
SOURCE
WATER
POLLUTION**
*DEQ & Coastal
Localities*



**CHESAPEAKE
BAY
PRESERVATION
AREAS**
DEQ (CBPA)



**PLANTS PESTS &
NOXIOUS
WEEDS**
VDACS



**COMMONWEAL
T H LANDS**
DWR & DCR



**WILDLIFE &
INLAND
FISHERIES**
DWR



3 Major Goals of the Virginia CZM Program

Coastal Resource Protection

To protect and restore native coastal *habitats* and *species*; restore and maintain coastal *water and air quality*; reduce or *prevent loss* of coastal habitat, life, and property.

Coastal Resource Sustainable Use

To provide for *sustainable wild fisheries and aquaculture*; promote *sustainable ecotourism*; increase and improve *public access*; promote *renewable energy*; provide for *appropriate extraction* of mineral resources.

Coastal Management Coordination

To ensure *sustainable development* and access for *water-dependent development*; avoid and minimize coastal resource *use conflicts* through research, planning, and a *forum for coordination*; promote informed decision-making by maximizing availability of up-to-date *information, technical advice, and scientific data*.



What Climate Preparedness Projects Have We Funded?

- Since October 2000, 137 grants; \$6.35M

Coastal PDCs - 59

VIMS - 59

Wetlands Watch - 8

W&M CPC - 7

DEQ - 2

MRC - 1

UVA -1

- Nature-based - 70
- Community-based - 42
- Both – 25
- See website for products

Resilience Projects Since FY 2000									
in green; Community Resilience projects in red									
Grant	Task	Grantee	Title	CZM \$	Match \$	Total \$			
Ye									
108	1.01	Watch VIMS	Guidance to Build Resilience & Mitigate SLR as Elements of CBPA	\$84,800	\$0	\$84,800			
109	1.02	W&M CPC	Guidance to Build Resilience & Mitigate SLR as Elements of CBPA	\$50,878	\$0	\$50,878			
110	2021	41 ANPDC	Resilience Technical Assistance	\$30,000	\$30,000	\$60,000			
111		42 Crater PDC	Resilience Technical Assistance	\$30,000	\$0	\$30,000			
112		43 HRPDC	Resilience Technical Assistance	\$30,000	\$30,000	\$60,000			
113		44 MPPDC	Resilience Technical Assistance	\$30,000	\$30,000	\$60,000			
114		45 NNPDC	Resilience Technical Assistance	\$30,000	\$30,000	\$60,000			
115		46 NVRC	Resilience Technical Assistance	\$30,000	\$60,000	\$90,000			
116		47 GWRC	Resilience Technical Assistance	\$30,000	\$30,000	\$60,000			
117		48 RRPDC	Resilience Technical Assistance	\$30,000	\$30,000	\$60,000			
118		71 VIMS	Conservation Targeting for Resilience	\$101,250	\$101,252	\$202,502			
119		72 ANPDC	Ecotourism for Resilient Communities	\$74,000	\$75,002	\$149,002			
120		73 MPPDC	Integrated Shoreline Plan White Paper & Pilot	\$50,000	\$50,000	\$100,000			
121		91.01 W&M CPC	Enforceable Policies & CC Resilience	\$56,000	\$0	\$56,000			
122		91.02 W&M CPC	RAFT Expansion, Assessments & Workshops	\$80,000	\$0	\$80,000			
123		91.03 Wetlands Watch	Community Rating System Program Support & Expansion	\$40,000	\$0	\$40,000			
124	2022	41 ANPDC	Resilience Technical Assistance	\$30,000	\$30,000	\$60,000			
125		42 Crater PDC	Resilience Technical Assistance	\$30,000	\$0	\$30,000			
126		43 HRPDC	Resilience Technical Assistance	\$30,000	\$30,000	\$60,000			
127		44 MPPDC	Resilience Technical Assistance	\$36,262	\$36,828	\$73,090			
128		45 NNPDC	Resilience Technical Assistance	\$29,992	\$29,992	\$59,984			
129		46 NVRC	Resilience Technical Assistance	\$29,993	\$8,565	\$38,558			
130		47 GWRC	Resilience Technical Assistance	\$30,057	\$30,057	\$60,114			
131		48 RRPDC	Resilience Technical Assistance	\$30,000	\$30,000	\$60,000			
132		71 VIMS	Conservation Targeting for Resilience	\$101,250	\$101,728	\$202,978			
133		72 ANPDC	Ecotourism for Resilient Communities	\$74,000	\$74,000	\$148,000			
134		73 MPPDC	Integrated Shoreline Plan White Paper & Pilot	\$50,000	\$0	\$50,000			
135		91.01 W&M CPC	Enforceable Policies & CC Resilience	\$56,000	\$0	\$56,000			
136		91.02 W&M CPC	RAFT Expansion, Assessments & Workshops	\$80,000	\$0	\$80,000			
137		91.03 Wetlands Watch	Community Rating System Program Support & Growth	\$40,000	\$0	\$40,000			
Total Dollars				\$6,353,544	\$2,551,666	\$8,905,210			

Nature-based Projects

- Dune protection
- Shoreline inventories
- Shoreline change classification
- Sill design research
- Conservation targeting for Resilience
- CBPA guidance for sea level rise
- Ecotourism to build resiliency
- Integrated shoreline plans
- Living shoreline contractor training



Community –based Projects

- Regional climate change adaptation
- Transportation inundation vulnerability
- Sea level rise planning
- Climate adaptation work group support
- Community Rating System (CRS) support to localities
- Options to address flooding
- Vulnerability to sea level rise based on elevation data
- Road flooding analysis
- Resilience Adaptation Feasibility Tool (RAFT)

Evaluation Topics from the RAFT Scorecard



All photos by Aileen Devlin, Virginia Sea Grant.

- POLICY, LEADERSHIP, AND COLLABORATION**
 - LOCALITY LEADERSHIP AND PLANNING FOR RESILIENCE
 - LOCALITY LEADERSHIP AND RESPONDING TO AN EMERGENCY
 - LOCAL COLLABORATION WITH STATE AGENCIES AND REGIONAL PDC
 - ADAPTIVE MANAGEMENT
 - THE NATIONAL FLOOD INSURANCE PROGRAM (NFIP) COMMUNITY RATING SYSTEM
- RISK ASSESSMENT AND EMERGENCY MANAGEMENT**
 - FLOOD EXPOSURE AND VULNERABILITY ASSESSMENT
 - RISK ASSESSMENT FOR VULNERABLE POPULATIONS
 - BUSINESS AND ECONOMIC RISK ASSESSMENT
 - HAZARD MITIGATION
 - RESIDENT EMERGENCY PREPAREDNESS
- COMMUNITY ENGAGEMENT, HEALTH, AND WELL-BEING**
 - PUBLIC INVOLVEMENT IN RESILIENCE PLANNING
 - PROVIDING COASTAL RESILIENCE INFORMATION TO THE PUBLIC
 - RESIDENT LEADERSHIP AND VOLUNTEER NETWORKS FOR COASTAL RESILIENCE
 - RESILIENT SYSTEMS TO PROVIDE FOOD, HEALTH, AND MEDICINE
 - PHYSICAL AND MENTAL HEALTH FOR SOCIAL EQUITY IN COMMUNITY RESILIENCE
- PLANNING FOR RESILIENCE**
 - BUDGET, FUNDING, AND STATE & FEDERAL ASSISTANCE
 - COASTAL RESILIENCY IN COMPREHENSIVE PLAN
 - LAND USE ORDINANCES
 - INCENTIVES FOR COASTAL RESILIENCE
 - NATURAL RESOURCE PRESERVATION
- INFRASTRUCTURE RESILIENCE**
 - STORMWATER INFRASTRUCTURE
 - CRITICAL TRANSPORTATION INFRASTRUCTURE
 - WATER SUPPLY AND WASTEWATER MANAGEMENT SERVICES
 - NATURAL AND NATURE-BASED FEATURES



Current Focal Area Projects (FY 20, 21 & 22)

- \$30k/yr to the 8 coastal PDCs to
 - Support the Virginia Coastal Resilience Master Plan
 - Add proposed climate resilience projects to the projects database
 - Regional resiliency coordination and prioritization
- \$101k/yr to VIMS (w/subcontracts to DCR and CPC & working with DWR) for conservation targeting
 - Project future migration patterns and habitat shifts
 - Policy options to address implications of habitat shifts

The screenshot shows the 'Projects and Initiatives' page of the Virginia Coastal Resilience Web Explorer. The interface includes a navigation menu with 'Introduction', 'Hazards', 'Impacts', 'Community Context', and 'Projects and Initiatives'. A text block states: 'The collected projects represented here provide an initial sample of the substantial resilience project needs within the Commonwealth. Projects were collected from various localities and PDCs. Future CRMP efforts will seek to extend the coverage of this database while moving to a more comprehensive capture of needs across the Commonwealth.' Below this, there are filter sections for 'Select Area of Interest' (set to Commonwealth and Virginia), 'Filters' (Category: All, Hazard Addressed: All, Project Class: All), and 'Additional Map Layers' (Coastal Floodplains, Community Resource Impact Areas, Critical Sector Impact Areas). A search bar is present with a 'Clear' button. A list of projects is displayed, including '18th Street Drainage Improvements', '1. Crow's Nest Peninsula and Estuary Conservation', '2019 FMA', '5th Street Improvements', 'Aberdeen Gardens Drainage Improvements', 'Aberdeen Road Disconnect Wet Pond', 'Aberdeen School Neighborhood Park ED Wetland Retrofit', 'Amherst Road Wetlands', and 'Annual Coastal Bays seagrass restoration'. A map on the right shows the state of Virginia with project locations marked in green.



Current Focal Area Projects (FY 20, 21 and 22)

- \$74k/yr to AN, MP NN PDCs and PlanRVA to promote protection of conserved lands and resilient communities through ecotourism.
- Includes:
 - Marketing water and oyster trails
 - Ecotour guide certification classes
 - public access signage
 - Resiliency assessments of ecotourism infrastructure
 - Training ecotour businesses in resiliency



Hire an Ecotour Guide

You've made your decision. You want to take the day – perhaps the weekend – and explore rural coastal Virginia.

But you don't want to do it alone. You want to have someone well versed in the ecosystem science help point out what you are seeing. You want to understand the natural and cultural history of the region. And you want to be led.

Consider hiring a guide. Certified Virginia Ecotour Guides share fun facts about our beautiful coastal ecosystems and their wild inhabitants. They have received training in wildlife and habitat protection, customer service, interpretation, and planning – so



Next Focal Area Projects (FY 23)

- \$30k each to the 8 coastal PDCs for resilience work
- \$120k/yr to VIMS for coastal resilience data
- \$45k to DCR for resilience planning for conserved coastal lands
- \$60k to DOE for aggregate resource mapping for resilience use (road elevation)

CAWG Meeting Notes


July 27, 2021 Meeting Notes

Online Resources/Tools

1. Summer 2022 Workshop – *Launching a Coastal Resilience and Adaptation Economy*, C. Considine
2. Summer 2022 Workshop – *Coastal Bays Restoration*, D. Snyder
3. Summer 2022 Workshop – *Seagrass Blue Carbon Project*, S. Bates
4. Summer 2022 Workshop – *Catching Up on All Things Resilience*, E. Andrews



Current 5-year Climate Strategy Projects




Virginia Coastal Zone
MANAGEMENT PROGRAM

*VIRGINIA SECTION 309
COASTAL NEEDS ASSESSMENT
& STRATEGIES*

Draft submitted to NOAA July 2, 2020.
Final version submitted to NOAA January 27, 2021.

Every five years the Virginia CZM Program assesses the Commonwealth's coastal resources and management efforts. High priority topics are then chosen and 5-year grant strategies are designed to result in new enforceable policies to manage better those high priority resources or issues.



VIRGINIA SECTION 309 COASTAL NEEDS ASSESSMENT & STRATEGIES

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5-YEAR BUDGET SUMMARY BY STRATEGY

Strategy Title	Anticipated Funding Source (309 or other)	Year 1 Funding FY21	Year 2 Funding FY22	Year 3 Funding FY23	Year 4 Funding FY24	Year 5 Funding FY25	Total
Coastal Hazards	309	\$176,000	\$167,000	\$167,000	\$167,000	\$167,000	\$844,000
Ocean Resources	309	\$183,000	\$176,000	\$176,000	\$176,000	\$176,000	\$887,000
Marine Debris	309	\$170,000	\$160,000	\$160,000	\$160,000	\$160,000	\$810,000
Total Funding		\$529,000	\$503,000	\$503,000	\$503,000	\$503,000	\$2,541,000

FY 21 Coastal Hazards = \$176,000

FY 22 Coastal Hazards = \$176,000

FY 23 Coastal Hazards = \$198,630

FY 24 Coastal Hazards = \$167,000

FY 25 Coastal Hazards = \$167,000

TOTAL = \$884,630

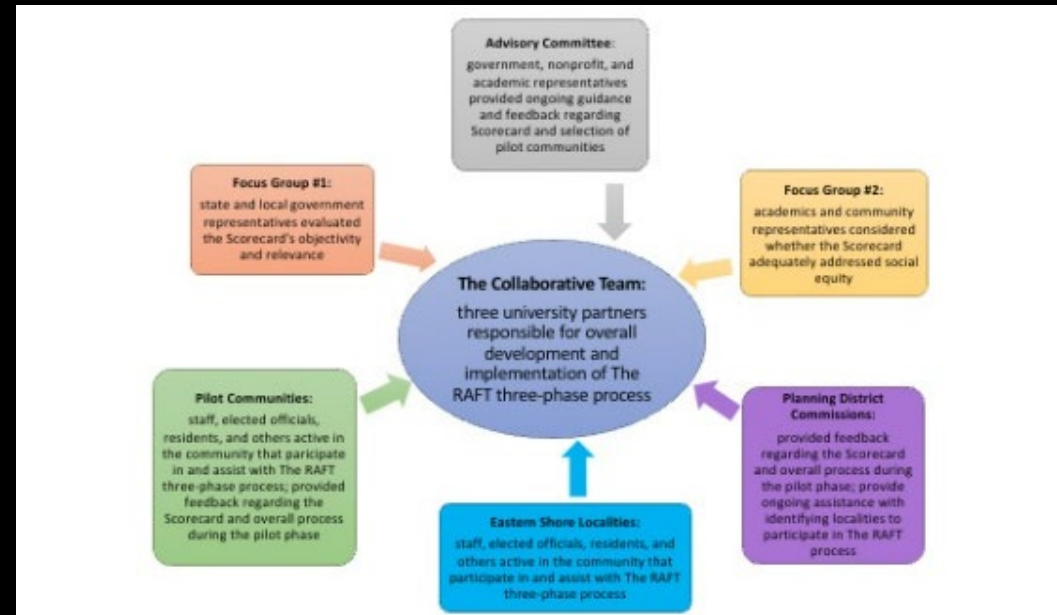
Current & Next Climate Strategy Projects

FY 22 Coastal Hazards Projects

- UVA/IEN: RAFT Workshops - \$80,000
- Wetlands Watch: CRS - \$40,000

FY 23 Coastal Hazards Projects

- MPPDC: Building Resilience for Working Waterfronts - \$54,500
- UVA/IEN: RAFT Workshops - \$80,000
- HRPDC: Review Assess Document (RAD) for minor floodplain project permit exemptions - \$25,000



Upcoming Opportunities: The \$ummer of Money!



1st Pot of \$\$ Coming Through CZM



Competition at State (VA CZM) & National (NOAA) Level:

- BIL + IRA \$ for Land Acquisition/Habitat Restoration Grants - \$57M available nationally
- Projects for “Climate Ready Coasts”
- CZM will run state-level competition and submit 3 Letters of Intent to NOAA
- NOFO <https://www.grants.gov/web/grants/view-opportunity.html?oppld=348701>
- Letters of Intent due to VA CZM July 14

FY24 BIL Competitive Grants Schedule for Land Acquisition and Habitat Restoration

June 14, 2023	Federal Funding Opportunity (FFO) posted. <i>Applicants have 2126 business days to develop LOIs.</i>
July 14, 2023	LOIs due to Virginia CZM. <i>CZM has 3 business days to collate.</i>
July 19, 2023	CZM mails LOIs and score sheets to CPT. <i>CPT has 6 business days to score.</i>
July 27, 2023	Score sheets due to CZM. CZM creates rankings and emails results to CPT. <i>CZM has 2 business days to send out rankings.</i>
August 1, 2023	CZM sends rankings to CPT.
August 8, 2023	CZM holds virtual call/CPT meeting to finalize selection of top 3 LOIs to submit to NOAA. <i>CZM/applicants have 4 business days to make any changes to LOIs.</i>
August 14, 2023	LOIs due to NOAA.
October 6, 2023	NOAA selects LOIs for full proposals.
January 10, 2024	Full proposals due to NOAA.
August 1, 2024	Anticipated project start date.

3 More Pots of \$\$ Through CZM



Virginia CZM Non-Competitive Funds from NOAA thru BIL & IRA						
	Dec 22 - Nov 23	Dec 23 - Nov 24		Dec 24 - Nov 25		TOTAL
Award #1 BIL Non-Competitive	\$147,490	\$149,861		\$149,861		\$447,212
			Oct 24 - Sep 25		Oct 25 - Sep 26	Oct 26 - Sep 27
Award #2 BIL Non-Competitive Addition			\$300,000		\$300,000	\$300,000
Award #3 IRA Non-Competitive Awarded Oct 24 but as a 5 year award			\$900,000			\$900,000
TOTAL						\$2,247,212

- Will fund CZM Conservation Coordinator
- Will use CZM Coastal Policy Team to solicit and score proposals for remaining funds.

Process Steps

Detailed schedules will be shared as NOFO's are published.

1. Applicants submit draft LOI's or pre-proposals
2. CZM will compile LOIs or pre-proposals and email them to Coastal Policy Team (CPT) voting members with score sheets
3. CPT will have ~ 1 week to score
4. CZM will compile scores and send them to CPT
5. CZM will host a webinar or in-person meeting to discuss scoring and finalize which projects to submit to NOAA

Additional Opportunity from NOAA for IRA Funds, but not through CZM



- Climate Resilience Regional Challenge - \$575M available nationally
- Collaborative projects to build resilience of coastal communities to climate impacts
- Two Tracks: Strategy Development and Implementation
- One-time regional competitions
- Funds can be spent over 5 years
- Broad eligibility (states, NGOs, local govts, Tribes, academia)
- NOFO posted on June 20. Closing date for LOIs is Aug 21.
- If selected, full applications due Feb 13 2024
- See <https://coast.noaa.gov/funding/ira/resilience-challenge/>

Additional Opportunity from NOAA/NMFS - not through CZM

BIL & IRA: Habitat Funding

National Marine Fisheries Service (NMFS)

- NOAA Habitat:

- Fish Passage

- All eligible
- Tribal-only

- Habitat

- “Transformational Habitat Restoration”
- Habitat Restoration for Underserved Communities

- Year 1: 109 awards; \$480million (w/ FY22&23 BIL + IRA); >50% 1st time recipients

- Year 2: Likely MORE funding

- NOFO: Mid/late-June: Lol due late summer(?)
- **APPLY THIS YEAR!** (they may only do 3 years of NOFOs)





Questions?

Photo by Alex Wilke, TNC