

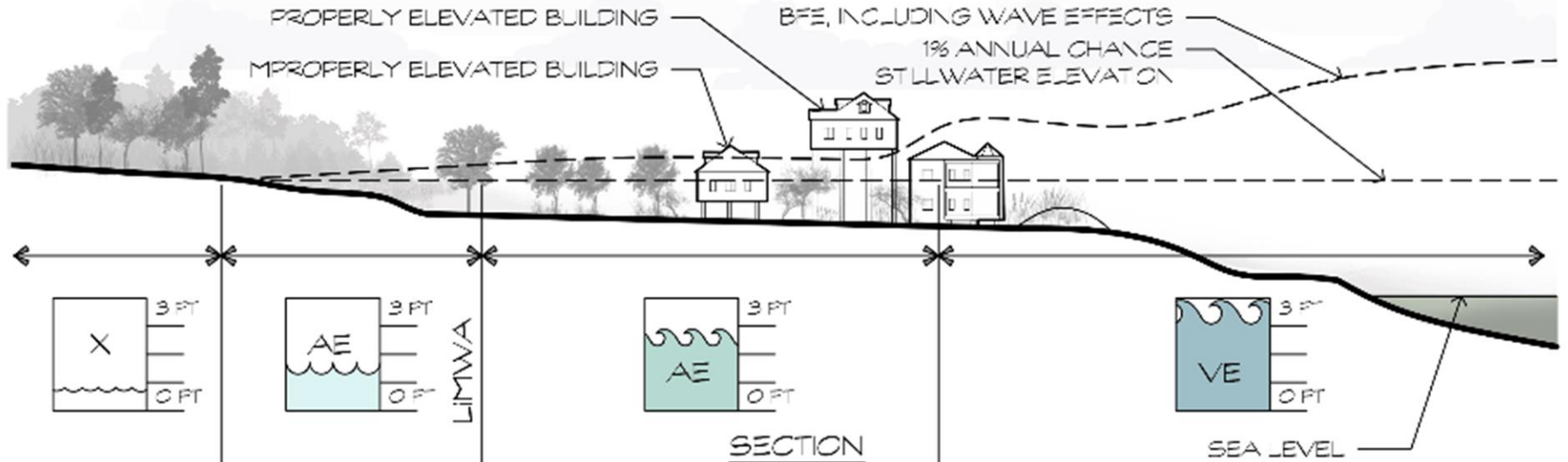
Monie Bay Field Station: Charting a Way Forward

Maryland Coast Smart Council
August 5, 2019

Jenn Raulin
Reserve Manager
Chesapeake & Coastal Service
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Briefing Objectives

- Background on the Research Reserve/Monie Bay
- Overview of the UMD Architecture Studio
- Value of the partnership and project



Estuarine science on a national level...



- **29 networked Reserves** across the U.S. (NOAA program + state partners)
- **1.3M + acres of protected land** and water used for living laboratories and classrooms

Resilient estuaries and coastal watersheds—Where human and natural communities thrive.

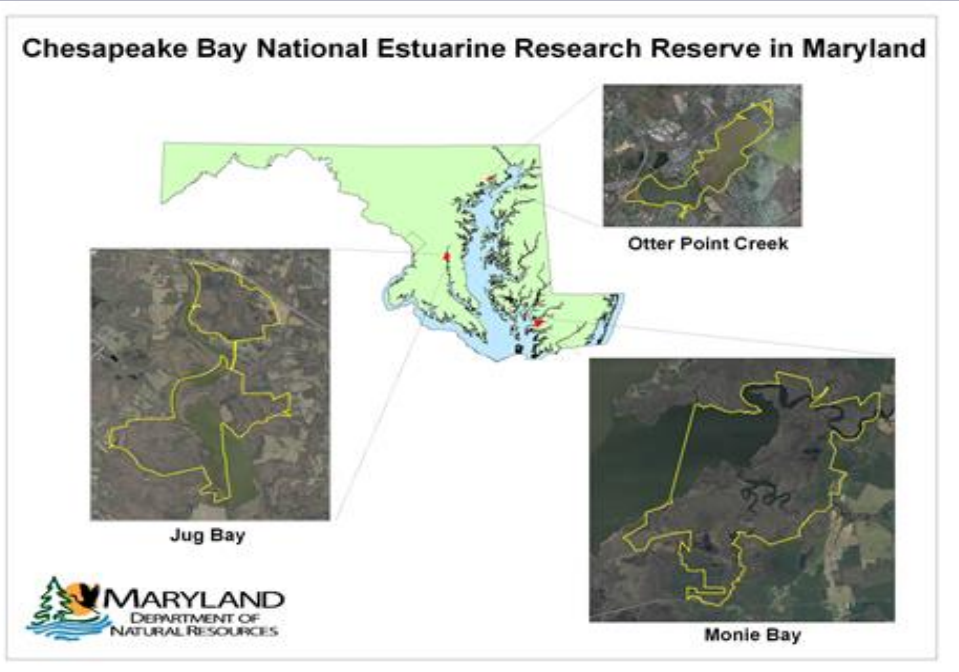


Maryland's Research Reserve



“Locally Relevant, Nationally Significant”

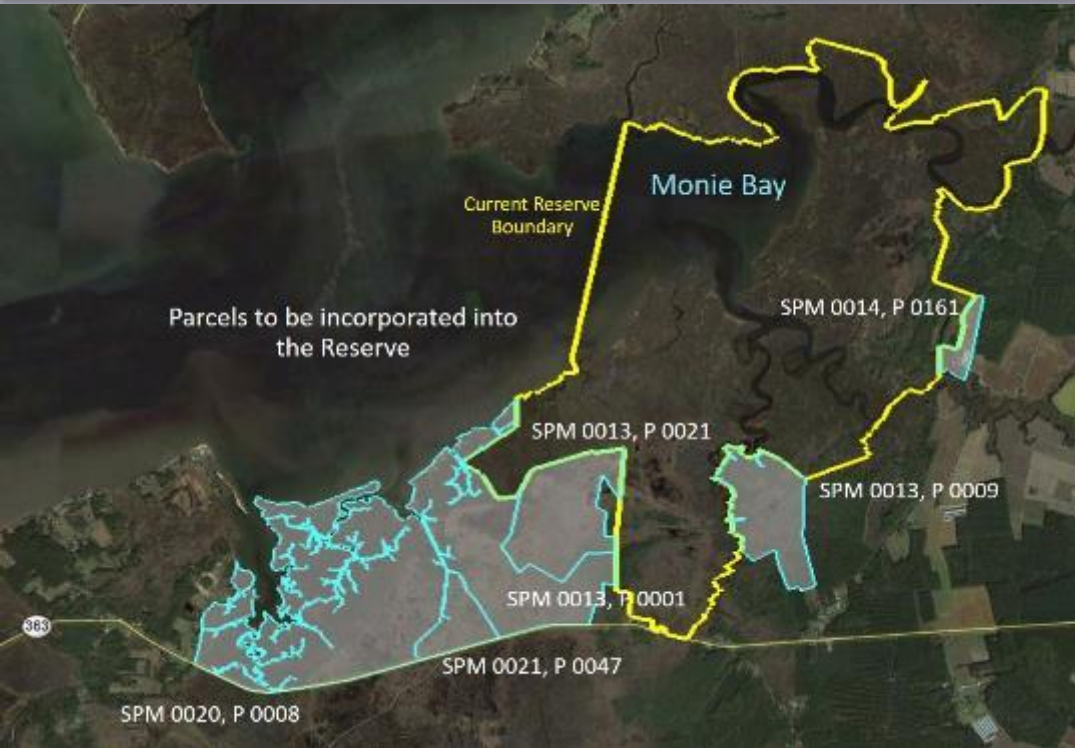
Chesapeake Bay National Estuarine Research Reserve in Maryland



- **Established 1985**
- **8,000 + acres of protected land** over 3 unique sub-estuaries.
- Through **Research, Stewardship, Education & Training**, learn and communicate about the health of our marshes



Monie Bay



Field Research Requests

- University of Maryland System
- Salisbury University
- George Mason University
- George Washington University
- University of Houston
- University of Maine
- USGS
- VIMS

-Monie Bay
Designated 1985

-1st Annual
WWFD 1993

-EOB ConMon
2006

-Drawbridge Farm
Acquisition 2011

-Water Trails
2014

-Field Station Grant,
Phase I 2017

-Sentinel Site 2018
-UMD Design
Studio 2018

-DIPP 2012

-SURE 2018
-TLP Research
2018

Monie Bay Field Station



MARYLAND
DEPARTMENT OF
NATURAL RESOURCES

MARYLAND HISTORICAL TRUST
DETERMINATION OF ELIGIBILITY FORM

NR Eligible: yes ___
no ___

Property Name: James Phillips House Inventory Number: S-357
Address: 12140 Drawbridge Rd City: Princess Anne Zip Code: 21853
County: Somerset USGS Topographic Map: Monie 1:24000 USGS Quad
Owner: State of Maryland's Department of Natural Resources Is the property being evaluated a district? ___yes

Maryland Department of Natural Resources
WILDLIFE AND HERITAGE SERVICE
Regional Operations
Memorandum

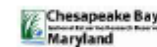
To: Chris Snow
From: Karina Stonesifer
Subject: Project Review Proposal 2017DNR025. Monie Bay

Monie Bay Field Station: Phase 1

October 1, 2017 - September 30, 2020

CONSTRUCTION REQUEST FOR THE:

Maryland Department of Natural Resources (DUNS 0334253850000)
Chesapeake Bay National Estuarine Research Reserve - Maryland
580 Taylor Ave, E-2
Annapolis, MD 21401



INVESTIGATORS:

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FINANCIAL REPRESENTATIVE:

Laura Younger, Director, Management Services
Chesapeake & Coastal Service
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IDENTIFYING ASPECTS:

The project is located at the Monie Bay Component of CBNERR-MD. This rural area, located on the Lower Eastern Shore of Maryland in Somerset County, Monie Bay is approximately 100 miles from CBNERR-MD headquarters in Annapolis, MD. Specific address of the project:
12140 Drawbridge Road
Princess Anne, MD 21853

Maryland's Chesapeake Bay
National Estuarine Research Reserve
Monie Bay Drawbridge Farm Property

Parcel Vulnerability



Legend

- CBNERR-MD Boundaries
- Drawbridge Farm Boundary
- Current Farmhouse Location

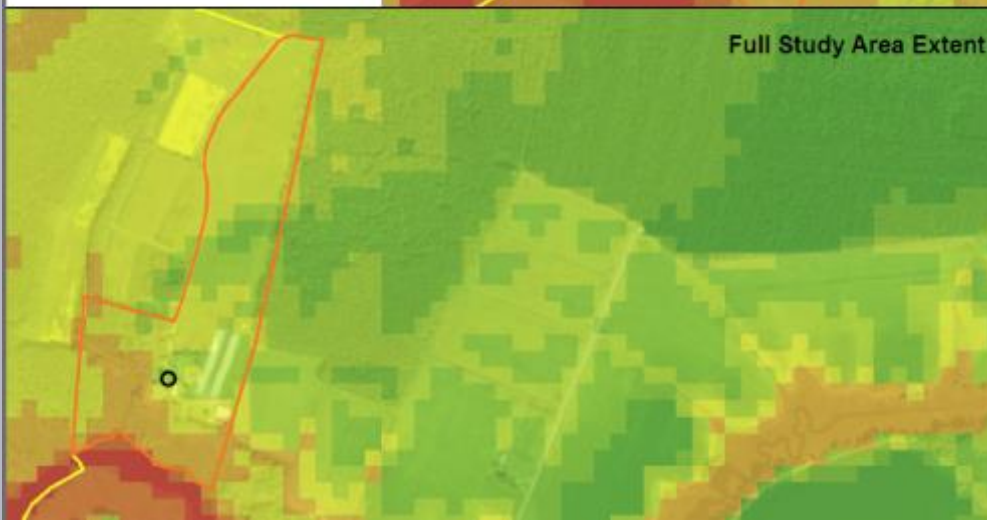
Vulnerability Low to High

- | | |
|---|---|
| 3 | 8 |
| 4 | 9 |
| 5 | |
| 6 | |
| 7 | |

Vulnerability is based on exposure to sea level rise, storm surge and FEMA floodplain



Full Study Area Extent



Architecture Studio



Architecture Studio



Next Steps



- MDDNR E&C Developing Cost Estimates
- Investigating Sources of Design Funds/Match
- Developing Proposal for NOAA funding

Height Above Grade Finished Floor	Required Ramp Length	5' Rest Platforms Required	Height Above Grade Structure	Kayak Storage	Parking
5 feet	65 feet	1	3 feet		
6 feet	82 feet	2	4 feet		
7 feet	94 feet	2	5 feet	✓	
8 feet	111 feet	3	6 feet	✓	
9 feet	123 feet	3	7 feet	✓	✓

Value Of:

- Process: Learning By Doing, Collaboration
- Project: “Field Testing,” Documenting, Sharing
- Project: Intersection of Natural and Built Infrastructure



Thank You

