

**From:** [conn](#)  
**To:** [Leah Hill](#)  
**Subject:** Art. 69  
**Date:** Thursday, May 16, 2024 8:26:50 AM

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Good morning, Ms, Hill.

Thank you again for keeping in touch. We are very concerned about the selection by a member of your group to build a prototype plan without first having the Select Board move to have Article 69 amend the Nantucket Code and then follow Article 69 instruction to map the entire district and break it down into so called sub-districts. After this is done maybe you might be able to pick a sub-district to prototype. We will be very closely following this as we are sure you will put your efforts into establishing a coastal resilience district and not just another recreational area with no parking.

Please read this at the opening of your next meeting.

Regards  
Gerry Connick  
Washington Street (for 40 years)  
561-310-0076

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This email was scanned by Bitdefender

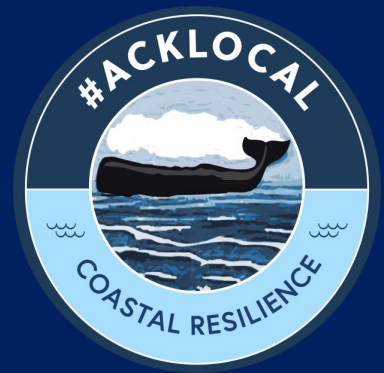
Coastal  
Resilience  
Advisory  
Committee  
(CRAC)

2ND QUARTER  
REPORT TO  
SELECT BOARD  
FOR APRIL-JUNE  
2024

**COASTAL  
RESILIENCE  
ADVISORY  
COMMITTEE**

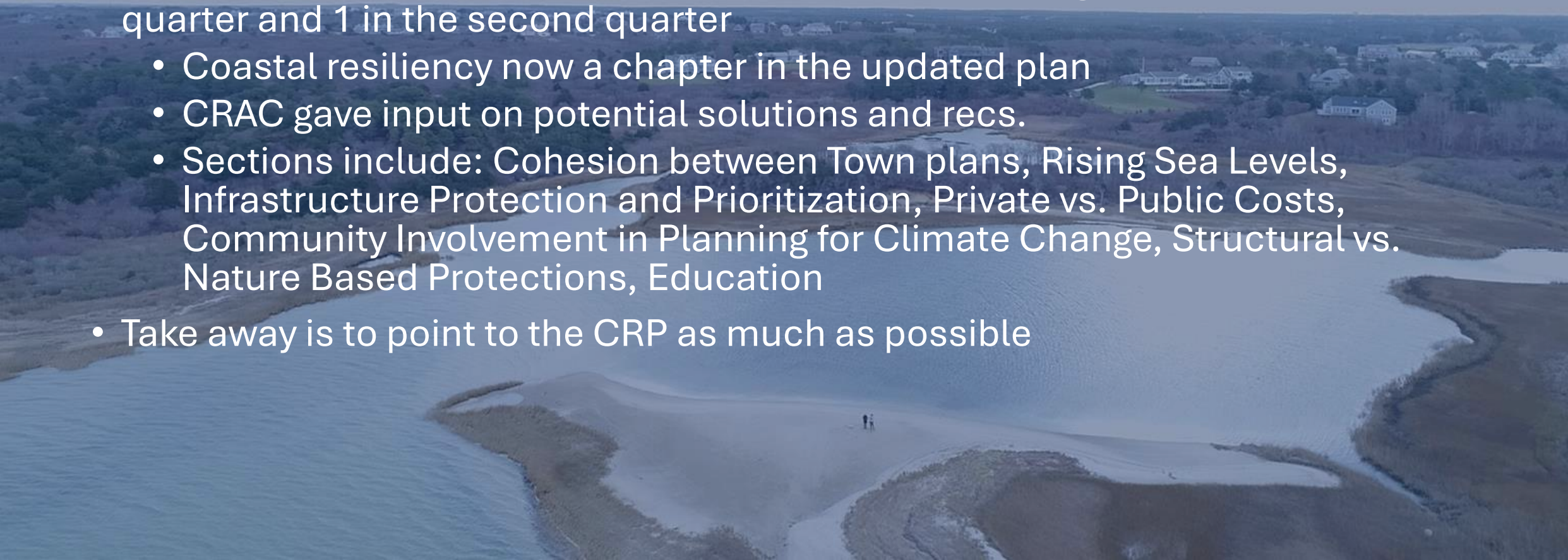
# HIGHLIGHTS FROM THE QUARTER

- Input into the Harbor Action Plan Update
- Completed homeowner's survey
- Created an informational brochure
- Downtown site visit
- Recap on Coastal Resilience Districts
- Discussions with local regulatory boards and commissions



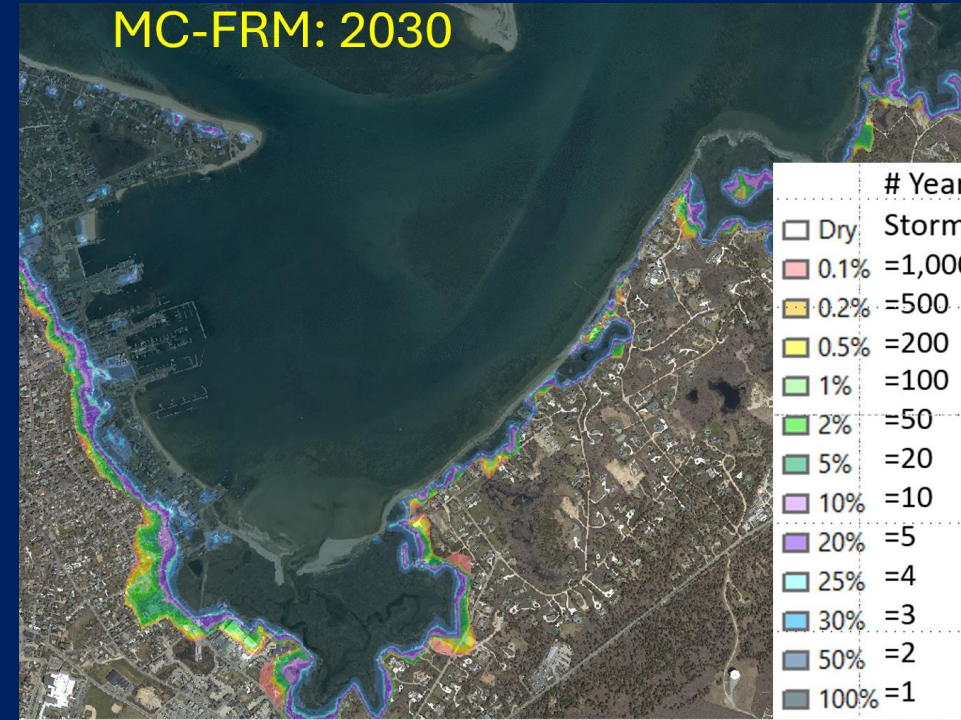
# Input to the Nantucket Harbor's Action Plan Update

- Urban Harbors Institute attended multiple CRAC meetings
- CRAC members attended 2 Harbor Plan update meetings- 1 in the first quarter and 1 in the second quarter
  - Coastal resiliency now a chapter in the updated plan
  - CRAC gave input on potential solutions and recs.
  - Sections include: Cohesion between Town plans, Rising Sea Levels, Infrastructure Protection and Prioritization, Private vs. Public Costs, Community Involvement in Planning for Climate Change, Structural vs. Nature Based Protections, Education
- Take away is to point to the CRP as much as possible



# Presentation on the Massachusetts Coastal Flood Risk Model by Kirk Bosma

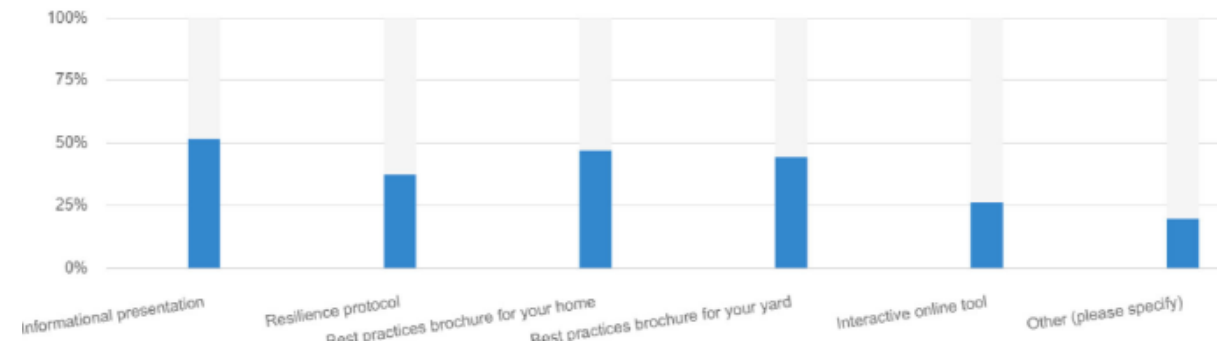
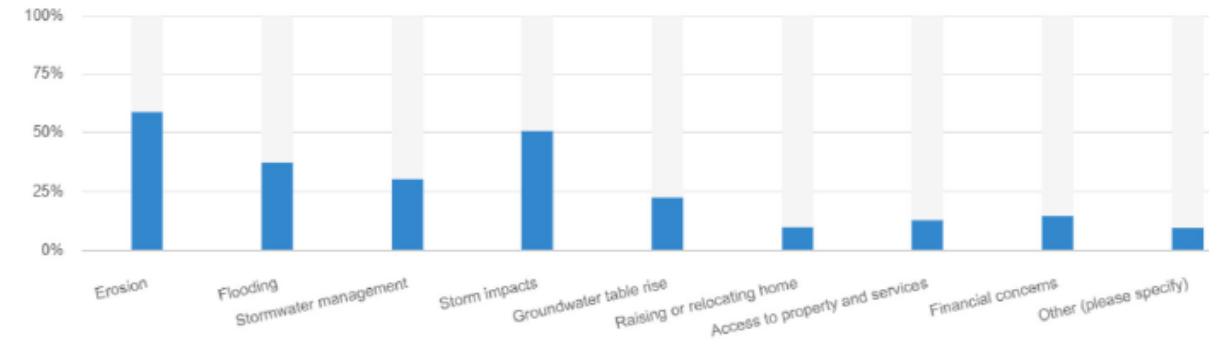
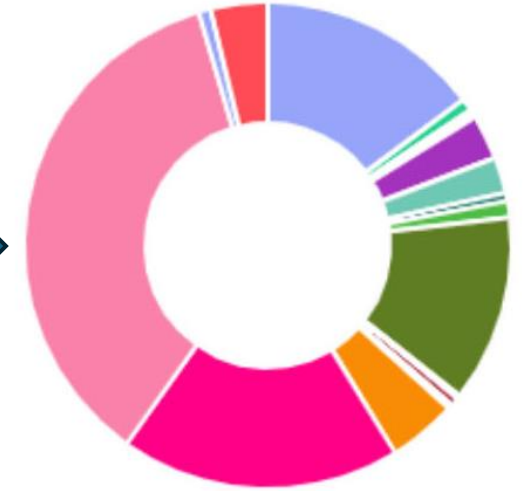
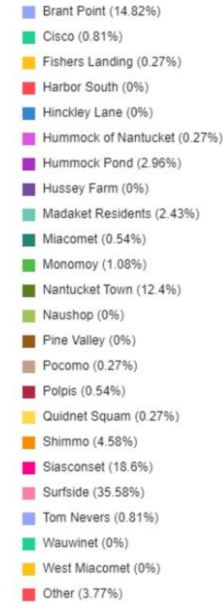
- MC-FRM is a model that predicts salt water flooding by coastal storms for 2030, 2050, 2070
- Deep dive into MC-FRM because questions arose during local Wetland Regulation update hearings regarding issues with the model
  - Issues primarily with sea level rise projections and scenarios
  - MC-FRM is NOT a sea level rise model or predictor
- Hoping to get the updated layers on our GIS



# Presentation on the Results from CRAC's Area Association Survey by Peter Morrison

- ~400 participants from 24 different areas

1. What are your biggest concerns today regarding coastal hazards related to sea level rise on your property or within your neighborhood?
2. Do you have concerns about your property or your neighborhood for the future?
3. Are you currently implementing coastal resilience measures?
4. From your perspective how can CRAC help your neighborhood within our capacity?



# Discussion on Next Steps for Survey

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- Survey still open on CRAC's webpage
- Print card with QR code to pass out at forums this summer and fall
- Continue giving homeowner association presentations
- Create resilience roadmaps for neighborhoods?
- Create resilience guide for yards
- Created homebuyer's brochure



# Real Estate and Homebuyers Brochure

- Public comments at CRAC meeting catalyst for this
  - A need to educate real estate agents and homebuyers on coastal hazards and risks
- CRAC gave input on what to include
- Thank you Communication Office!
- Coastal Resilience Coordinator co-taught a continuing education class for Nantucket Real Estate Agents on coastal resilience
  - Thank you NAREB!



## FEMA FLOOD MAPS

### FIND OUT IF A PROPERTY FALLS WITHIN A CURRENT FLOOD ZONE

Moderate- to low-risk flood areas are designated with the letters B, C, and X on FEMA flood maps. In these areas, the risk of being flooded is reduced, but not completely removed. **One in three insurance claims come from moderate- to low-risk flood areas.**

High-risk flood areas begin with the letters A or V on FEMA flood maps (warm colors on map above). **These areas face the highest risk of flooding.** If you own a property in a high-risk zone and have a federally backed mortgage, **you are required to purchase flood insurance as a condition of that loan.**



#### SCAN THE QR CODE

- Enter your address in the search bar (upper right hand corner).
- Colors are associated with specific flood zones.

## OUR COASTAL RESILIENCE PLAN

The Coastal Resilience Plan for Nantucket presents a comprehensive island-wide strategy, outlining 40 key recommendations to be executed over the coming decade and a half. This proactive approach is designed to mitigate the risks associated with flooding and erosion in Nantucket, ensuring resilient infrastructure through 2070.



#### SCAN THE QR CODE

- Read the full CRP.
- Find ideas to make your property more resilient.

### FOLLOW THESE TIPS TO PROTECT YOUR PROPERTY



ELEVATE APPLIANCES



PURCHASE AND MAINTAIN FLOOD INSURANCE



PLANT WITH NATIVE VEGETATION



KNOW YOUR RISKS!



STAY UP TO DATE WITH THE CURRENT CLIMATE CHANGE DATA



CONTACT US IF YOU HAVE QUESTIONS!

### STAY IN TOUCH



[www.nantucket-ma.gov/crp](http://www.nantucket-ma.gov/crp)



[coastalresilience@nantucket-ma.gov](mailto:coastalresilience@nantucket-ma.gov)



@nrdack



/nantucketnrd



## Coastal Resilience Guide for Real Estate Agents and Homebuyers

Produced by the:

### COASTAL RESILIENCE ADVISORY COMMITTEE

This brochure introduces the best available maps and models for erosion, flooding, and groundwater table rise for Nantucket.

Users can input specific addresses to learn about the current and future risks that properties may encounter.

Visit [www.nantucket-ma.gov/resilientack](http://www.nantucket-ma.gov/resilientack)  
and learn about best practices to protect  
historic properties.

# Site Visit



- Children's Beach
  - Segment of Downtown Neighborhood Flood Barrier
  - Concession resilience
- Easy Street
  - Segment of Downtown Neighborhood Flood Barrier
  - Updated risk assessment: now-2070 \$1.2 Billion in expected losses due to coastal flooding
  - Active project to bring resilience adaptation to 30% design
- Francis Street Beach Area
  - Explained Phase 1 of Washington St. Resilience Framework Plan
  - Current status: conceptual idea





## Town Meeting Recap: Article 67 & 69 by Vince Murphy

- Committee consensus general confusion from public regarding these articles
- More education and outreach around coastal resiliency and especially Town Meeting Articles
- Suggested to host a forum for public

# Public Outreach Ideas

- Still posting every Thursday on NRD's social media
- Reach back out to aligned organizations about adding coastal resilience to their newsletters
- Contact local media to see if they will feature coastal resilience topics
- Hold a coastal resilience forum for the public to ask questions/speak about coastal resilience issues
- Speak at different forums this summer to inform the public about CRAC
  - Civic League's Presidents Breakfast
  - State of the Harbor
  - Climate Change Summit

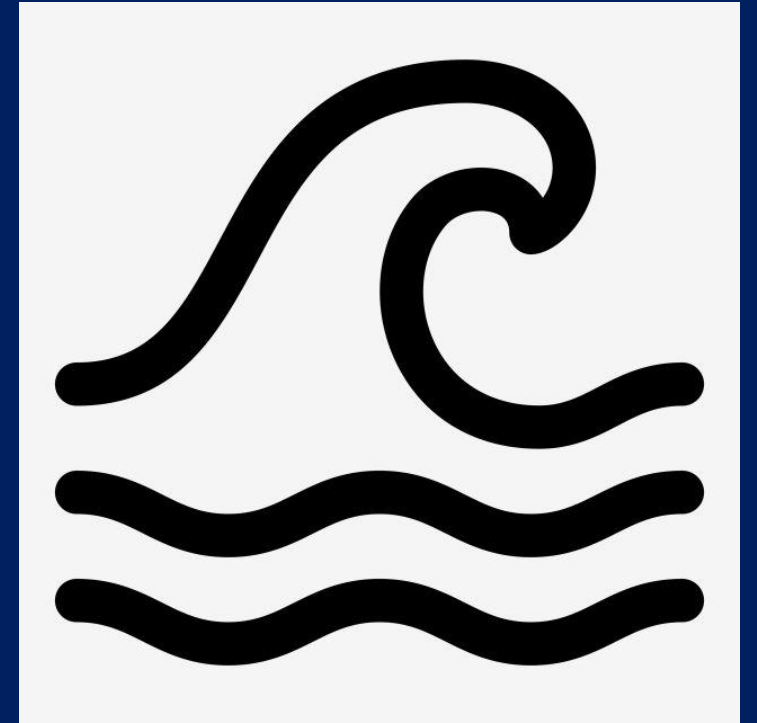
# Presentation on CRP Rec #4-3 “Coastal Erosion Management and Dune Resilience

# Discussion with Mark Willet from Wannacommet Water

# Discussion with Local Regulatory Boards & Commissions

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- 2 meetings
- Chairs or vice-chairs from
  - Airport Commission
  - Nantucket Planning and Economic Development Commission
  - Zoning Board of Appeals
  - Planning Board
  - Conservation Commission
  - Board of Health
  - Historic District Commission
- General consensus from these boards and commissions is that their regulations need to be updated to incorporate coastal resiliency



# REQUESTS AND RECOMMENDATIONS

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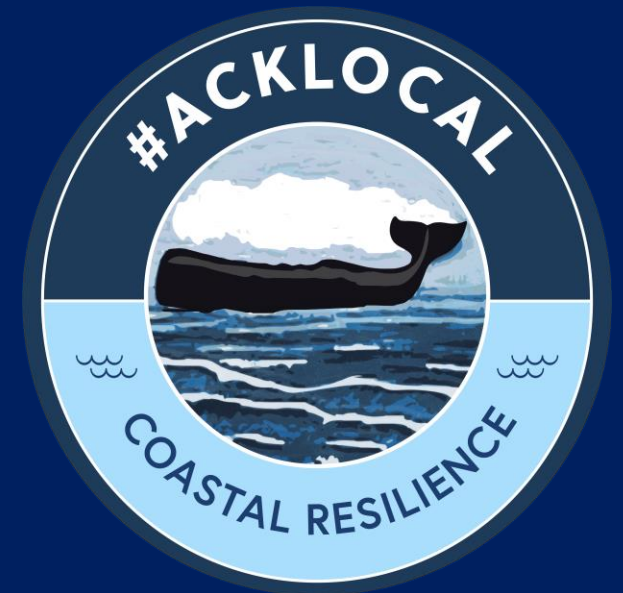
- Can CRAC offer comments/suggestions on how to incorporate coastal resiliency into local regulations?

Are there current or upcoming issues for which the Select Board would like the CRAC's advice?

The Coastal Resilience Advisory Committee generally meets on the **second** and **fourth Tuesday** of each month at 10 am via Zoom. Meeting notices and agendas are posted on the Town's website at:

<https://nantucket-ma.gov/1391/Coastal-Resiliency-Advisory-Committee>

Contact Leah Hill, Coastal Resilience Coordinator,  
[lhill@nantucket-ma.gov](mailto:lhill@nantucket-ma.gov)



# Coastal Resilience Planning: Coskata-Coatue Wildlife Refuge

Jen Karberg  
Director of Research and Partnerships



Alejandra Narvaez  
Coastal Projects Manager



# ***“Assessment and Analysis of Adaptive Interventions for Coatae-Coskata Properties”***

Report prepared by The Woods Hole Group for the Nantucket Conservation Foundation (NCF) and The Trustees of Reservations (TTOR)

## Key Report Components:

- Existing conditions
- Historic, current and predicted shoreline change summary
- Coastal inundation assessment
- Detailed analyses of 4 highly vulnerable sites already experiencing sea level rise impacts identified by NCF and TTOR



# General Findings

The Refuge is vulnerable to storm surge, present and future climate conditions.

Present Day: ~ 91% of the Refuge has a 100% chance of inundation each year.

By 2070, 98% of the total study area that will have a 100% chance of inundation each year.”

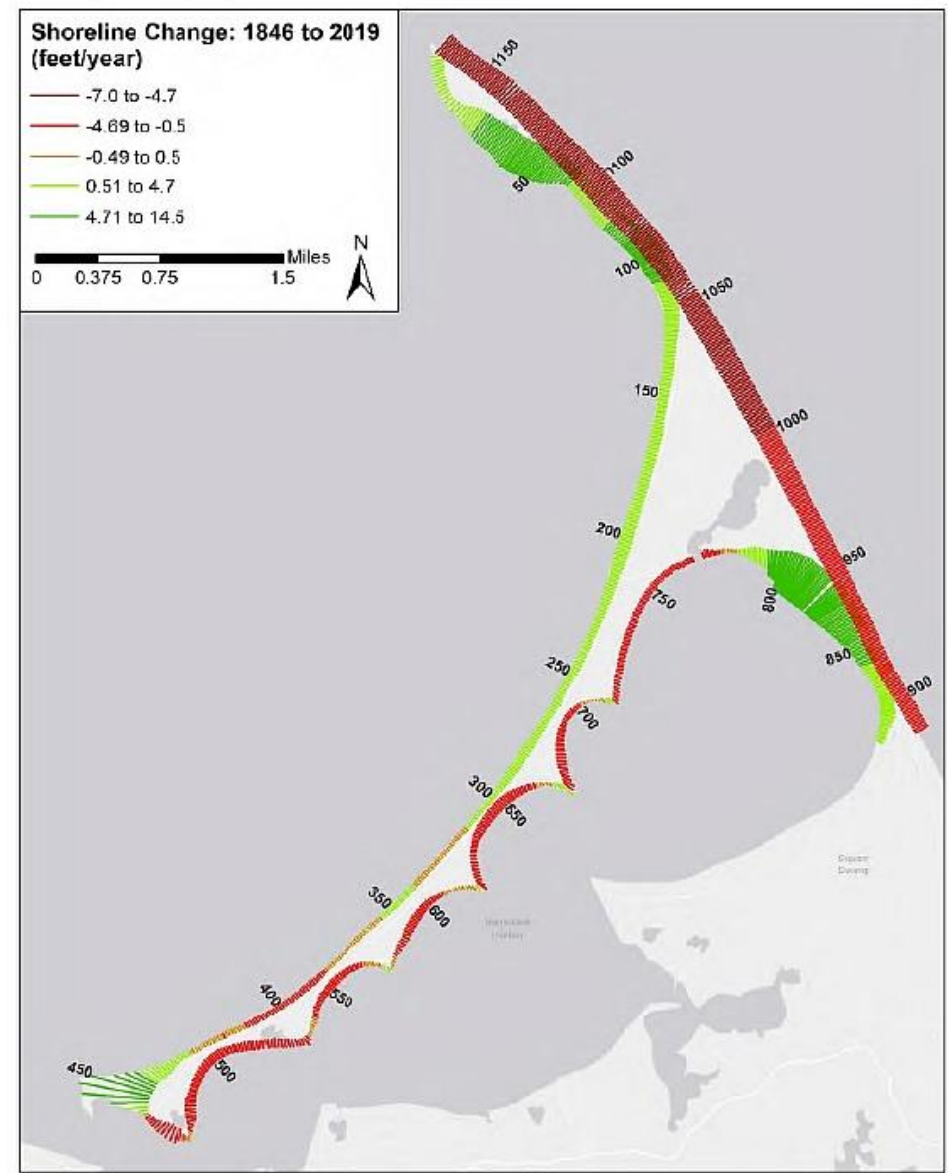
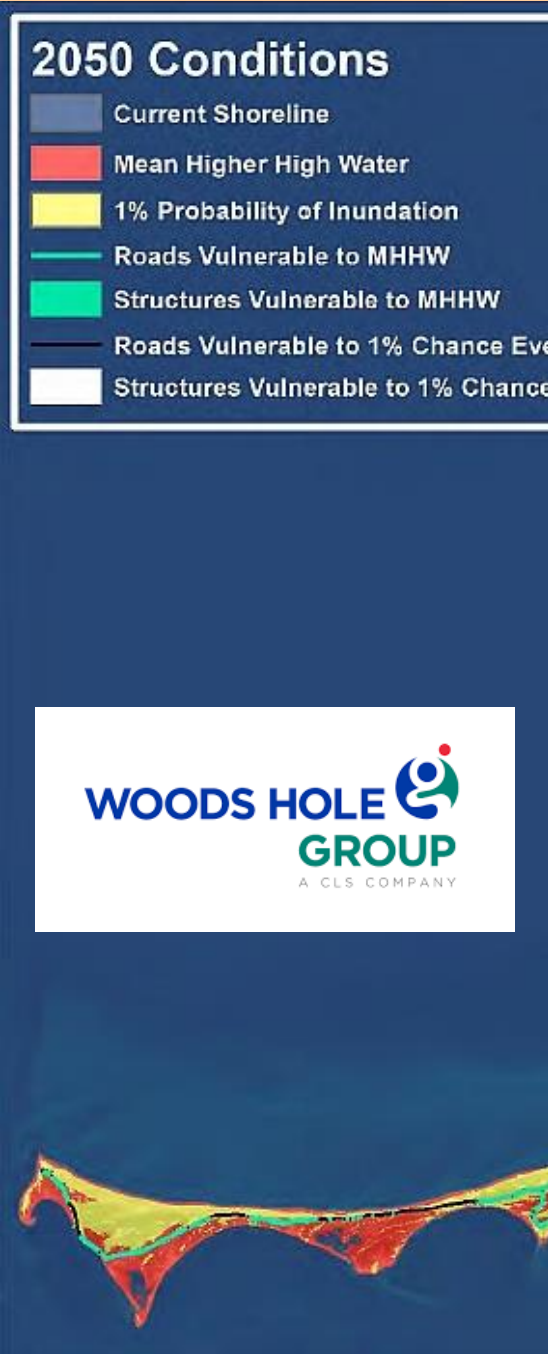


Figure 4. Long-term shoreline change rates for the western (1846-2019) and eastern (1887-2019) study areas. Negative values indicate erosion, while positive values indicate accretion.



# The Haulover



## Benefits to increasing Resilience

- Protect Nantucket Harbor
- Salt marsh migration on harbor side
- Enhance wildlife habitat
- Maintain public access

# Coskata Pond



## Benefits:

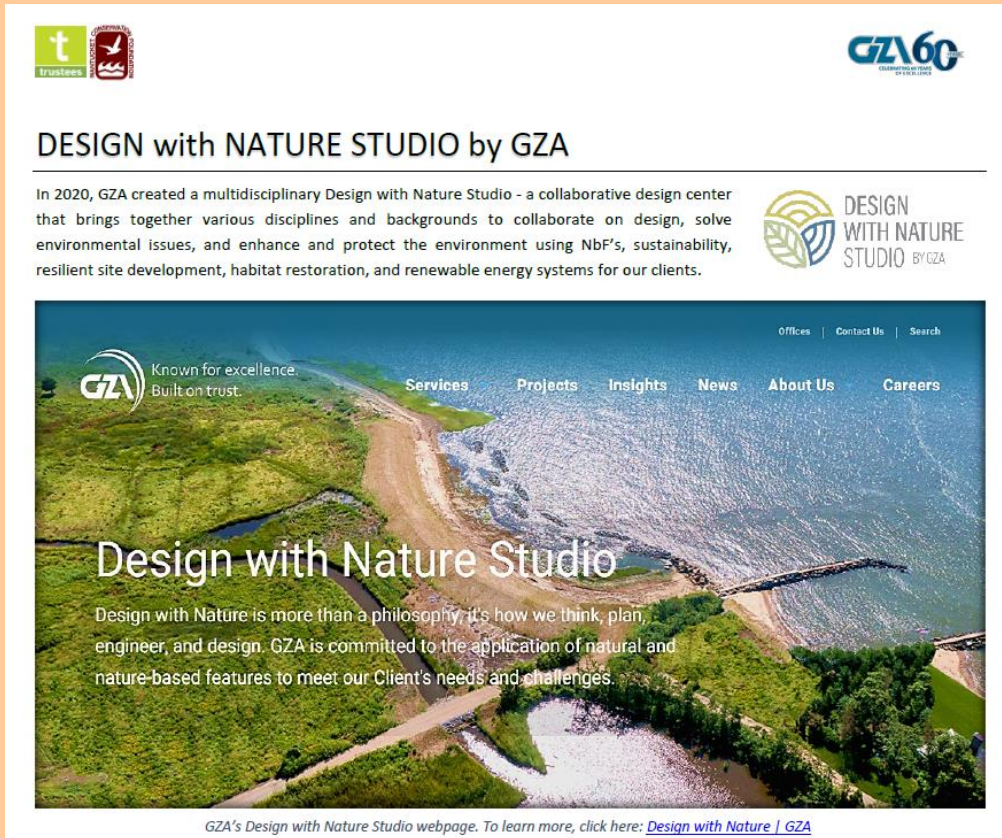
- Protect salt marsh and Coskata Pond from ocean overwash
- Maintain/enhance rare shorebird nesting habitat
- Maintain public access



# National Fish and Wildlife Grant: NCF and Trustees

## Deliverables:

1. Site Assessment
2. Design of Alternatives for both sites
3. Final Design to 30%



The screenshot shows the homepage of the Design with Nature Studio website. At the top, there are logos for the Trustees of Reservations and GZA 60th Anniversary. The main heading is "DESIGN with NATURE STUDIO by GZA". Below this, a paragraph states: "In 2020, GZA created a multidisciplinary Design with Nature Studio - a collaborative design center that brings together various disciplines and backgrounds to collaborate on design, solve environmental issues, and enhance and protect the environment using NbF's, sustainability, resilient site development, habitat restoration, and renewable energy systems for our clients." To the right of this text is the "DESIGN WITH NATURE STUDIO BY GZA" logo. The main visual is a large aerial photograph of a coastal wetland area. Overlaid on the image is the GZA logo and the text "Known for excellence. Built on trust." Below this, a navigation bar includes links for "Services", "Projects", "Insights", "News", "About Us", and "Careers". The main content area features the heading "Design with Nature Studio" and a subheading: "Design with Nature is more than a philosophy, it's how we think, plan, engineer, and design. GZA is committed to the application of natural and nature-based features to meet our Client's needs and challenges." At the bottom, a small text line reads: "GZA's Design with Nature Studio webpage. To learn more, click here: [Design with Nature | GZA](#)".



Prepared for  
The Trustees of Reservations & Nantucket Conservation Foundation



Submitted by:  
GZA GeoEnvironmental, Inc.  
118 Valley Street, Third Floor Providence, RI 02909

May 3, 2024

# Nature-based Coastal Resiliency Alternatives

- **Goal:** identify and evaluate several feasible alternatives to minimize short and long-term ecological and public access impacts at each site
- Beach grass/native species planting
- Beach and dune nourishment
- Sand fence
- Vegetation management
- Patron management
- Asset relocation (i.e. roads)
- Managed retreat
- Innovative Protection solutions using nature



Photos: Woods Hole Group



## 299,058 TOTAL IMPRESSIONS

CUMULATIVE

