Resilient Inland Bays

Launching the Southern Delaware Coastal Resilience Plan



preserve • protect • restore

Sussex Preservation Coalition Monthly Meeting (12/11/24) Melina Vella, Data Coordinator Meghan Noe Fellows, Director of Estuary Science and Restoration





Our mission is to preserve, protect, and restore Delaware's Inland Bays and their watershed.



Our mission is to preserve, protect, and restore Delaware's Inland Bays and their watershed.

We achieve this through science-based: research, restoration, education, outreach, public policy, and advocacy.













"A <u>healthy and resilient watershed</u>, where diverse wildlife and habitats thrive, and all who live, work, and visit contribute to its betterment as informed stewards."

— Delaware Center for the Inland Bays Vision Statement



Resilience is the ability to adapt to changing conditions and withstand—and rapidly recover from-disruption due to emergencies. (FEMA, 2000)

Image: Driscoll Drones

C 25 floodplanning.dnrec.delaware.gov



→ C ¹ floodplanning.dnrec.delaware.gov













A significant portion of recent improvements in air quality in India resulted from favorable meteorological conditions that are unlikely to persist as the climate changes, a new study has found.



Rapid industrialization and population growth have led to significant increases in emissions and <u>air pollution</u> to dangerous levels in India. To address this challenge, the Indian government implemented the National Clean Air Programme (NCAP) to reduce emissions of fine particulate air pollutants (<u>particulate</u> <u>matter</u> with diameters less than 2.5 microns (PM2.5) and 10 microns (PM10) and their "... improvements in air quality in India resulted from favorable meteorological conditions... unlikely to persist as the climate changes..."

Can an RMD Be Transferred into a Roth IRA?

"Nature-based solutions are sustainable planning, design, environmental management and engineering practices that weave natural features or processes into the built environment to promote adaptation and resilience."

- Building Community Resilience with Nature-Based Solutions (FEMA, 2021)

"Nature-based solutions are sustainable planning, design, environmental management and engineering practices that weave natural features or processes into the built environment to promote adaptation and resilience."

- Building Community Resilience with Nature-Based Solutions (FEMA, 2021)



Living Shoreline at Read Avenue







Living Shoreline at Delaware Botanical Garden

After-

After

Living Shoreline at Angola by the Bay

ore

Strategies For Information Collection









Strategies For Information Collection









Strategies For Information Collection



Community Conversations Online Questionnaire Coast Forward Summit Spatial GIS Mapping Layers **Shared Vision Document**

Participatory Science Tools



Community **Conversations**

Southern Delaware Coastal Resilience Plan

We are looking for small groups (6-8 people) who are interested in sharing their experience, opinions, and thoughts through facilitated discussions about coastal resilience.

Compensation will be provided for participants.

DELAWARE CENTER INLAND BAYS From road flooding to loss of wildlife habitat, we want to know what concerns you and your community have, and how you think we might be able to address them.

If interested, please contact Melina Vella mvella@inlandbays.org

> Unable to attend? Fill out our questionnaire to have your voice heard!





(C)

Audience Participation







What areas of concern do you have with a changing climate?

Rank the climate strategies you would be interested in seeing implemented from most to least interest.

ResilienceMitResistance (HeavyMigInfrastructure/Sea Walls)OthRebuild (Start Overs)

Mitigate (Sacrifice Zones) Migrate Other

Who should be responsible for climate resilience?

Audience Participation

Thank you.



Coast Forward Summit

Learn what you can do about coastal resilience and contribute to the Southern Delaware Coastal Resilience Plan.

Please join us for guided conversations and an informational open house. Discussions will be on climate and coastal resilience in the Inland Bays Watershed.

ARE

CENTER FOR THE INLAND BAYS Visit us at inlandbays.org to get updates on date, time, and venue.

For more information, please contact Melina Vella mvella@inlandbays.org



Participants will draw from across the professional and community resources.







Southern Delaware Coastal Resilience Plan Questionnaire Introduction How familiar are you with the Center for the Inland Bays? Very unfamiliar Very familiar Unfamiliar Somewhat Familiar familiar How familiar are you with Rehoboth Bay, Indian River Bay, and Little Assawoman Bay, which make up the Inland Bays of Delaware? Very familiar Very unfamiliar Unfamiliar Familiar Somewhat familiar How familiar are you with coastal or climate resilience? Very unfamiliar Unfamiliar Very familiar Somewhat Familiar familiar How familiar are you with nature-based solutions? Very unfamiliar Unfamiliar Somewhat Familiar Very familiar familiar How familiar are you with climate change? Very unfamiliar Unfamiliar Very familiar Somewhat Familiar familiar

Participants can complete the survey from their phones or computers.





CESR

Achieving Water Quality Goals in the Chesapeake Bay: A Comprehensive Evaluation of System Response



Outcomes

Shared Vision Document

Participatory Science Tools

Online publication of shared vision for the next 50 years including recommendations for language and actions to increase the use of nature-based solutions.

2024 Diamondback Terrapin Water-Based Survey Count



DO NOT pick up or touch diamondback terrapins. *astericks are required questions

Volunteer 1 Information 💌
Name 1*
Email 1
Phone number 1

Outcomes

Shared Vision Document

Participatory Science Tools

← → Ø 1 maps.coastalresilience.org/nev/jersey/

1



Outcomes

Shared Vision Document

Participatory Science Tools





Please answer our Questionnaire:



https://arcg.is/1DWnai

Coast Forward Summit

Please join us for guided conversations and an informational open house. Discussions will be on climate and coastal resilience in the Inland Bays Watershed.

DELAWARE CENTER FOR THE INLAND BAYS Learn what you can do about coastal resilience and contribute to the Southern Delaware Coastal Resilience Plan.

Visit us at inlandbays.org to get updates on date, time, and venue.

For more information, please contact Melina Vella mvella@inlandbays.org

NFWI

Thank you! Visit inlandbays.org to learn more about the Center!



Melina Vella mvella@inlandbays.org (302) 226-8105 Ext. 705