Division of Coastal Management Update









NC Coastal Area Management Act (1974)

- Balance competing coastal pressures through development permitting
- Local/state partnership to addresses coastal growth and related issues
- Enhance public access to beaches and coastal waters through grants to local governments
- Created the <u>NC Coastal Management Program</u>: Coastal Resources Commission, Coastal Resources Advisory Council, and Division of Coastal Management (DEQ)

North Carolina Division of Coastal Management

Regulatory Section

4 District Offices; Local Permitting Officers

Policy and Planning Section

- Policy Development
- Land Use Planning
- Community Resilience
- Waterfront Access Grants
- Strategic Planning & Coordination

Coastal Reserve Program

- 10 Coastal Reserve Sites



NC Coastal Resources Commission

- 13 members appointed by the Governor, General Assembly
- Membership includes local gov't, fishing, wildlife, agriculture, coastal land development, engineering/science experience
- Designates "Areas of Environmental Concern"
- Establishes policies and rules under the CAMA and the NC Dredge & Fill Act



NC Coastal Resources Advisory Council

- 20 members appointed by CRC
 - > ½ membership must be residents in coastal counties
- Provide local information and insights from coastal

communities to the CRAC, CRC and DCM

- Take information regarding the work of the CRAC and CRC back to their communities
- Provide technical expertise on issues relating to the CRC's work
- Develop recommendations on policy/rule initiatives at direction of CRC



REGULATORY SECTION





Areas of Environmental Concern (AECs)

Estuarine and Ocean System

Public trust areas, estuarine waters,
 coastal wetlands, and coastal
 (non-ocean) shorelines

Ocean Hazard Areas

Ocean Erodible Area, Inlet Hazard Areas
 Unvegetated Beach Area

Public Water Supplies

Natural and Cultural Resource Areas



Inlet Hazard Areas of Environmental Concern

Inlet Hazard Areas (IHA) vs. Ocean Erodible Area (OEA) Rules

Existing IHA Rules

- Boundaries became effective in 1978, inlets have since moved on...
- Calculating long-term erosion rates is more challenging due to the curved, dynamic shorelines at ocean inlets
 - Rules say apply erosion rates from the adjacent Ocean Erodible Area

Existing rules

- Size: new structures limited to 5,000 sq ft
- **Density:** limited to no more than 1 unit per 15,000 sf of land area (example: no townhome or duplex on lot less than 1/3 acre)
- **No new dunes** can be <u>created</u> inside an IHA. However, you <u>can</u> reconstruct or repair dunes inside an IHA

Inlet Hazard Areas of Environmental Concern

CRC Science Panel Charge

1) Perform 5-year re-evaluation of IHA methods and boundaries, incorporating data collected since the 2018 study.

2) Evaluate end-point and linear regression methods for calculating oceanfront shoreline change rates.

3) Present draft report(s) to CRC, including proposed IHA boundaries and erosion rates, in summer 2024.

Dredging & Beach Nourishment - Busy Season!



- Atlantic Beach
- Carolina Beach
- BEACHES Emerald Isle
 - Figure Eight Island
 - Holden Beach
 - North Topsail Beach
 - Topsail Beach
 - Wrightsville Beach

- WATERWAYS
- Bogue Inlet
- Lockwood Folly Inlet
- Mason Inlet
- Morehead City Harbor
- Nixon Channel
- Snows Cut

Permitting

- Consistent trend of ~3,000 permit decisions annually (new, modifications, transfers, renewals)
 - Approximately 130 Majors
- Application fee increases took effect Jan. 1, 2024
 - Most GPs increased to \$400; Minors to \$200
 - Shift some regulatory staff back to receipts
 - Last permit fee increase occurred in 2006
- Permitting Transformation Program (epermitting) implementation going well
- Staffing level is near full—one vacancy in Elizabeth City, one Asst. MP Coordinator, one DOT Representative



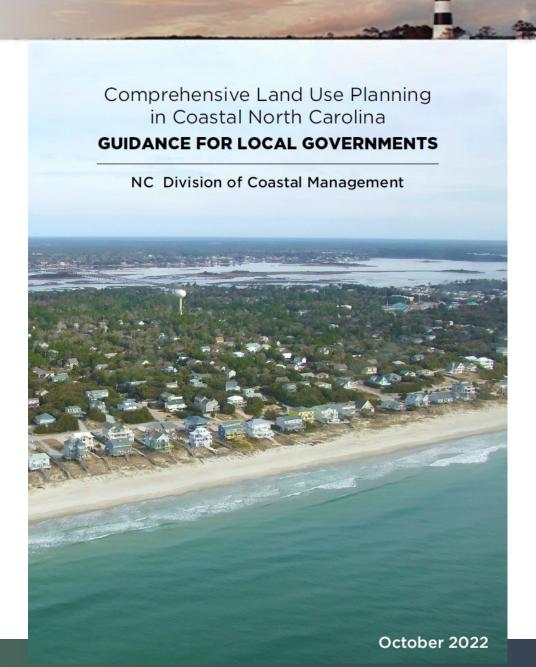
POLICY & PLANNING SECTION





DCM Land Use Planning Program

- Key component of the NCCMP
 - Local Planning long-term, general development issues
 - Regulatory connection under CAMA
- CRC LUP Management Topics
 - Procedural
 - Public Participation
 - Analysis
 - Issues to be addressed
- Local Governments (*Local Control*)
 - Issue-based policies
 - Community character; engagement
 - Traditional land use concerns



Public Beach and Waterfront Access Grants

2024-2025 Cycle

\$3.8M in available funding (normal year ~\$1M)

Pre-application period ended April 15th

23 applications received totaling \$3.6M

Final applications due July 15th

Award notifications in September/October





Changes along the North Carolina Coast

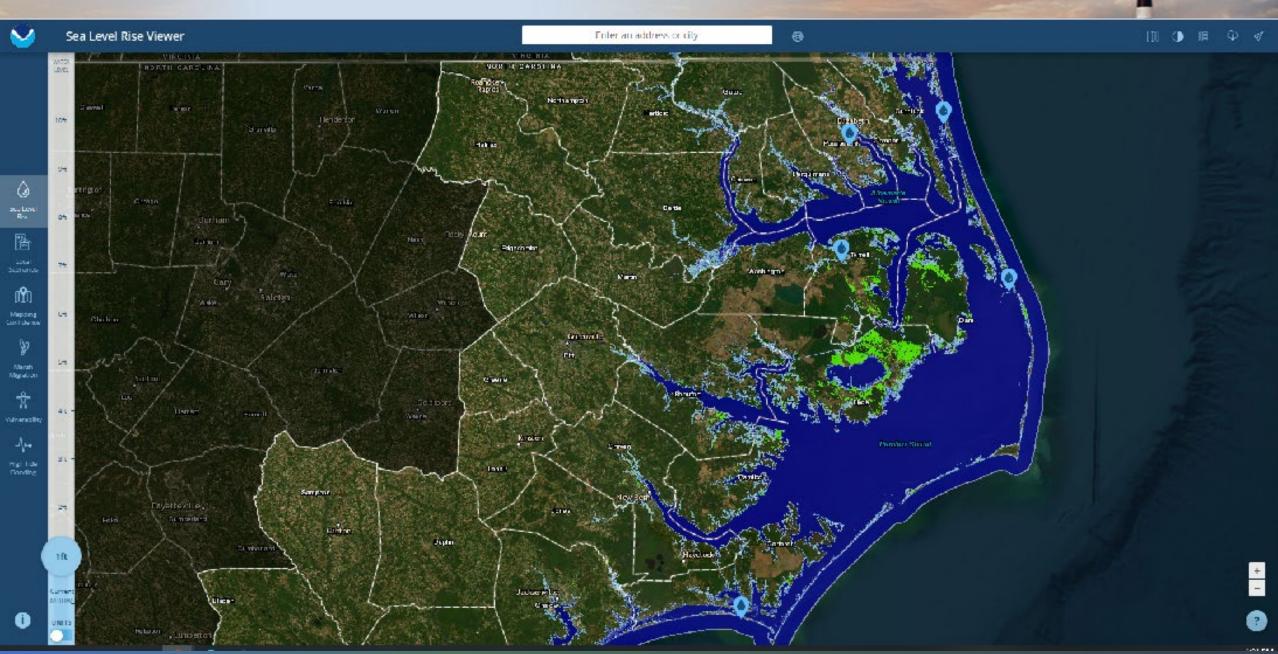
Physical Environment (change)

- Oceanfront shoreline erosion
- Estuarine shoreline erosion and wetland losses
- Habitat transitions
- Water: volume, quality, location, duration

Human Environment (disruptions)

- Way of Life impacts: live, work, movement
- Increased local government interest in resilience: Vulnerability assessments, planning,
 - finance, engagement
- Increased stakeholder interest: NGOs, media, citizens, academia, legislative

NOAA Sea Level Rise Viewer – 1 Foot Scenario





"Sunnyday" flooding

DCM Coastal Resiliency

- Sea Level Rise assessment Reports (2010, 2015); Draft SLR Update (2024)
- Resilience Evaluation & Needs Assessment Pilot (2016-2018)
- Planning & Management Grants: \$375k for coastal resilience projects (2016-2019)
- Regional Resilience Workshops and Summit (2019)
- Coastal Community Resiliency Guide (2019)
- Resilient Coastal Communities Program (2020)

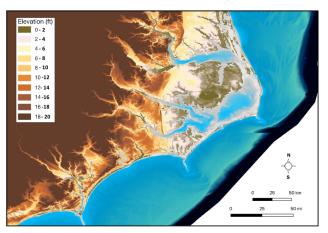
Sea Level Rise in North Carolina: Context, Impacts and Summary of Science Panel Update

Laura J. Moore Chair, CRC Science Panel

Professor of Coastal Geomorphology, UNC Chapel Hill

Director, Collaboratory for Coastal Adaptation over Space and Time (C-CoAST)

Science Panel Members: Kevin Conner (USACE), Reide Corbett (ECU), Andrea Hawkes (UCN-W), Joseph Long (UNC-W), Jesse McNinch (USACE), A. Brad Murray (Duke U.), Martin Posey (UNC-W), Spencer Rogers, Greg (Rudi) Rudolph (Sulmara)



Credit: Reide Corbett, ECU



Program Coordinator: Mackenzie Todd NC Division of Coastal Management (252) 515-5434

Mackenzie.todd@ncdenr.gov







RCCP Objectives:



- Address barriers to coastal resilience at the local level, esp.
 capacity
- Assist communities with risk & vulnerability assessments
- Help communities develop portfolio of well-planned and prioritized projects
- Advance priority projects to "shovel-ready" pipeline
- Link communities to funding streams for project implementation



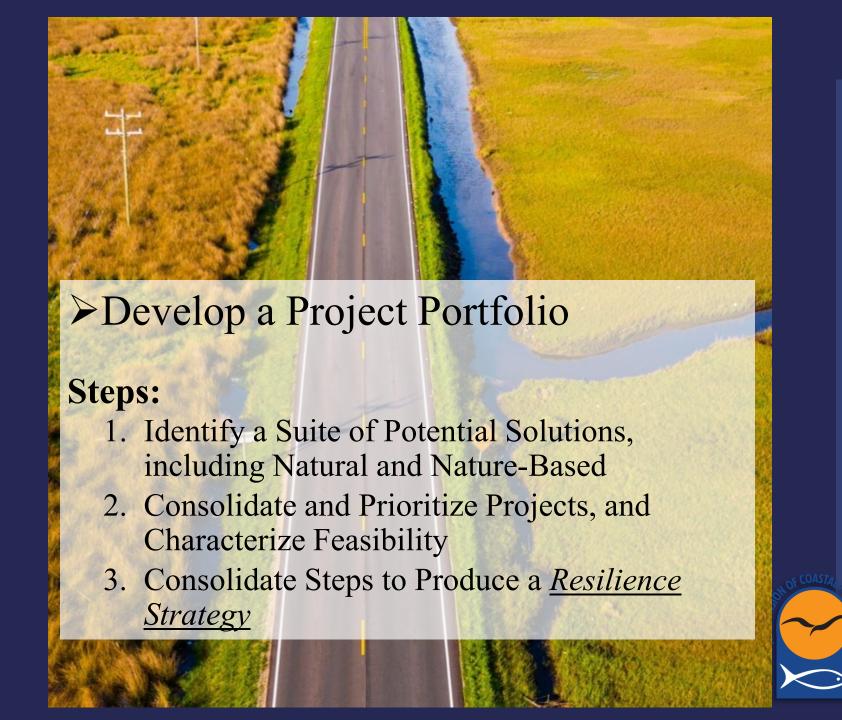
PHASE I

Community
Engagement;
Risk &
Vulnerability
Assessment



PHASE 2

Planning,
Project
Identification,
& Prioritization



PHASES 3 & 4

Engineering & Design

Implementation

No-match grants directly to local governments

- PHASE 3: Engineering and Design
- PHASE 4: Implementation





Options for Reducing Flood Risk

Debris Removal and Culvert Size Increase



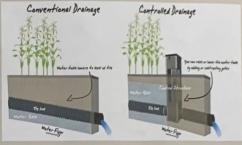
Benefit: Moves water more quickly through the system.

Wetland Restoration and Mitigation Banking



Benefit: Stores water in safe places to protect other areas in watershed.

Controlled Drainage



Benefit: Stores water in safe places to protect other areas in watershed.

2-Stage Ditch



Benefit: Creates more storage for floodwaters to reduce flooding of surrounding land.

River Gauge Installation



Benefit: Tracks and predicts flood patterns to improve emergency response and water management over time.

Water Farming/Dry Detention System



Benefit: Temporarily stores water in safe places to protect other areas in watershed.







RCCP Funding - Appropriations and Grants

Years 2019 - 2023

NCGA (SL 2019-224)

\$ 1,350,000

NFWF ECRF

\$ 1,060,000

NFWF NCRF

\$ 545,860

HUD

\$ 500,000

NOAA/CZMA Funding

\$ 60,000

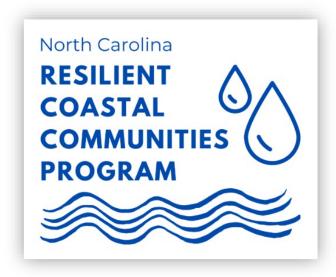
NCGA (SL 2021-180)

\$ 1,450,000

NCGA (SL 2023-134)

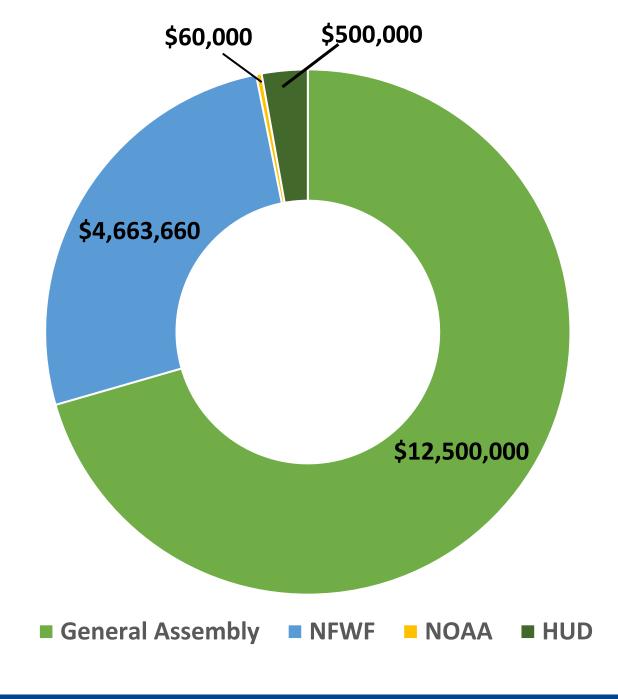
\$10,000,000

\$14,965,860



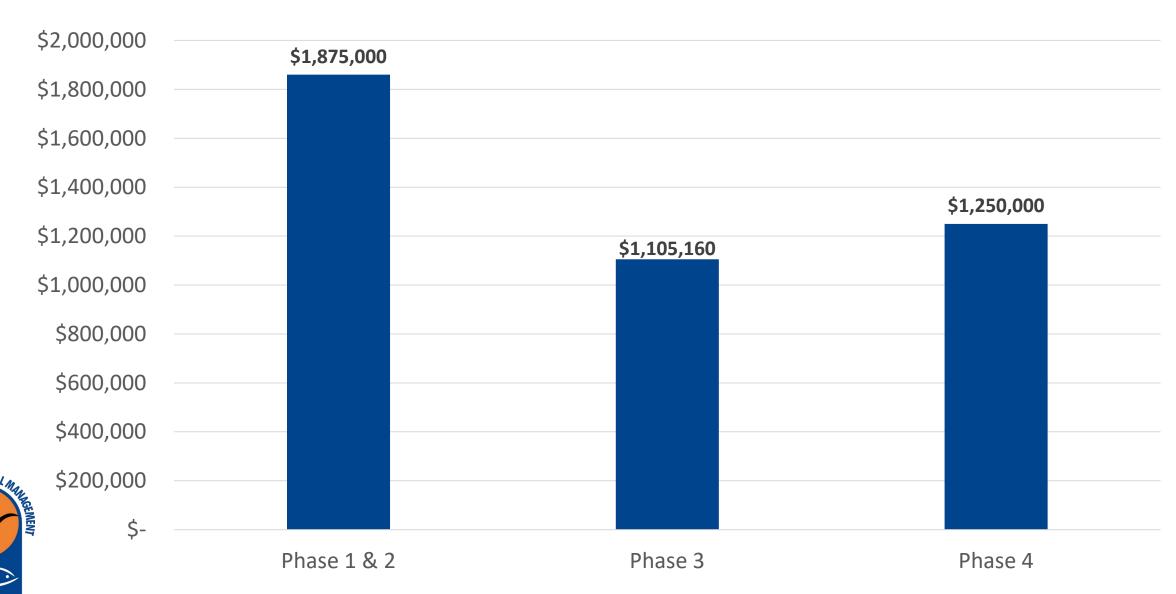


RCCP Funding





Grant Awards to RCCP Communities





41 Participating Communities

- 11 counties
- 30 municipalities





RCCP Today





Applied for NOAA's Climate Resilience Regional Challenge grant in partnership with NC Coastal Federation: \$25M for implementation of NBS projects. **\$5M match** in Governor's Budget.



National Fish & Wildlife Foundation National Coastal Resilience Fund pre-proposal: \$2M for resilience planning





Request for Applications open now for Phases 3 & 4 Funding

\$6M available for E&D and implementation projects

No match requirement

Applications due May 31



COASTAL RESERVES



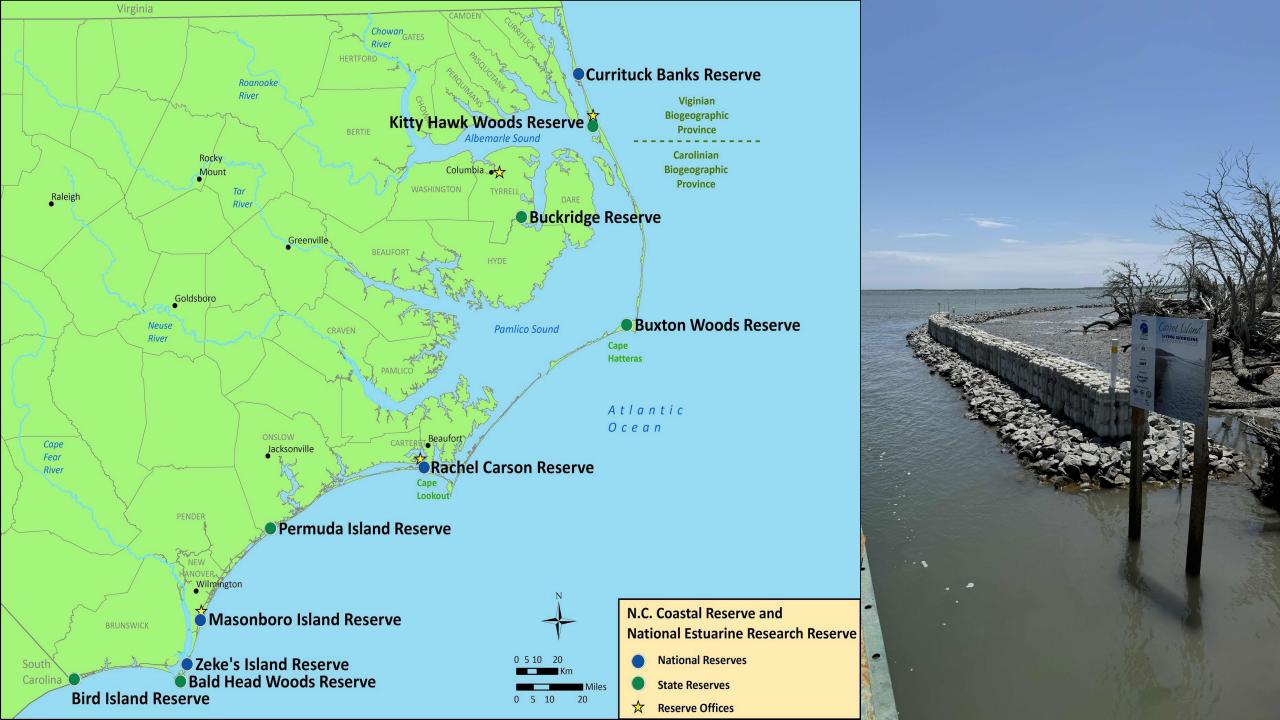






NORTH CAROLINA COASTAL RESERVE & NATIONAL ESTUARINE RESEARCH RESERVE





Ongoing Issues/Challenges

Rulemaking

Objections from the Rules Review Commission. Impacts to process & resource protections

• Dredged Material Management

- Beneficial use/salt marsh enhancement; disposal areas

• Shoreline Management

- Stabilization, nourishment (Beach Plans), restoration, mapping/modeling

Ocean Erodible Area and Inlet Hazard Areas

- AEC delineation, erosion rates, rule development (e.g., setbacks, density), local outreach

Navigation & Placement Projects

- Timing, methods, availability and allocation of resources

