### RESILIENCE & MITIGATION PLANNING ON THE EASTERN SHORE OF VIRGINIA

Shannon Alexander April 23, 2021

# Resilience & Mitigation Planning on the Eastern Shore of Virginia

- Regional Collaboration & Resilience Database
- Incorporated resilience into localities' planning, policy, and guiding documents
- Examples
  - Accomack County
  - Town of Chincoteague
  - Northampton County
- Lessons learned/challenges faced







Coastal Resilience Tool http://maps.coastalresilience.org/virginia/





# **Accomack County**

- In the 218 Update, Coastal Resiliency is addressed as mandated by State Code.
  - The recommended next step is to review the modeled data and identify the number of structures and properties affected. After appropriate review, action items are a likely outcome. Examples of such action items are advisory statements for new construction and planning for voluntary relocation of residents" Page C-20 of Appendix C 2018 – Accomack County Comprehensive Plan

Respecting the Past, Creating the Future: Accomack County Comprehensive Plan



# **Accomack County - Continued**

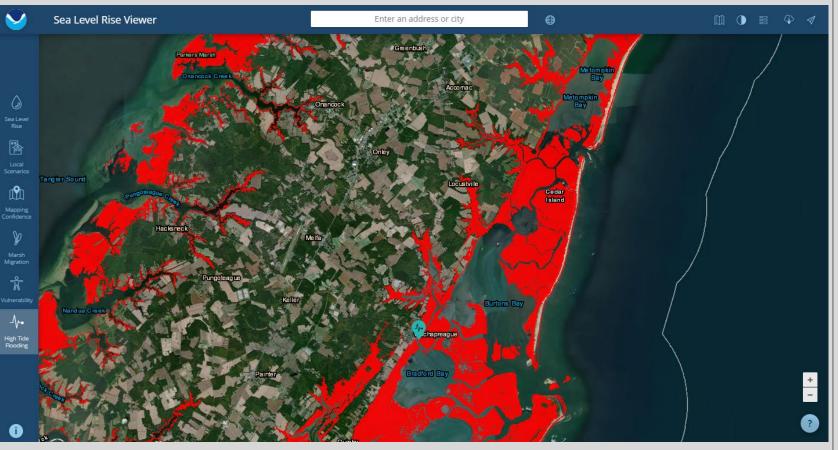
The Planning Commission divided this work into 3 categories for Advisory Information:

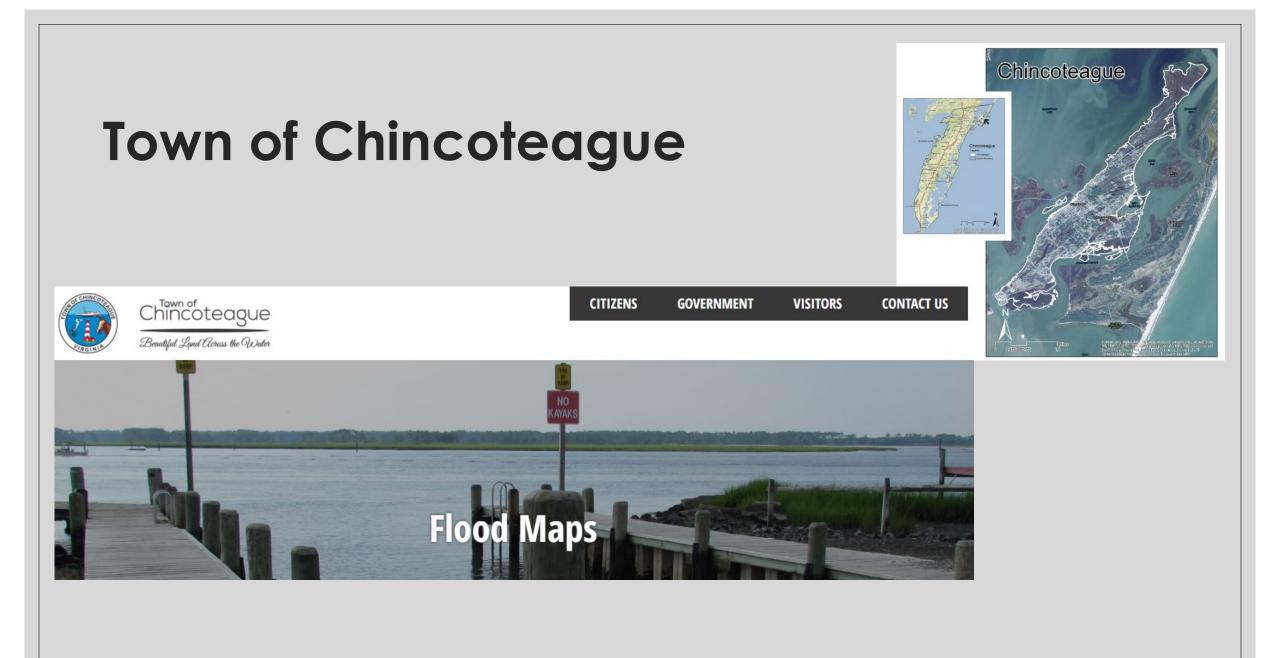
1) For those looking to purchase/build and new property owners

- 2) For Existing Development
- 3) For Torrential Rain Events

**Coastal Advisory Statement** 

ACCOMACK COUNTY WATER LEVEL RISE AND HIGH TIDE ADVISORY INFORMATION





## Town of Chincoteague - Continued

#### TOWN OF CHINCOTEAGUE COMPREHENSIVE PLAN

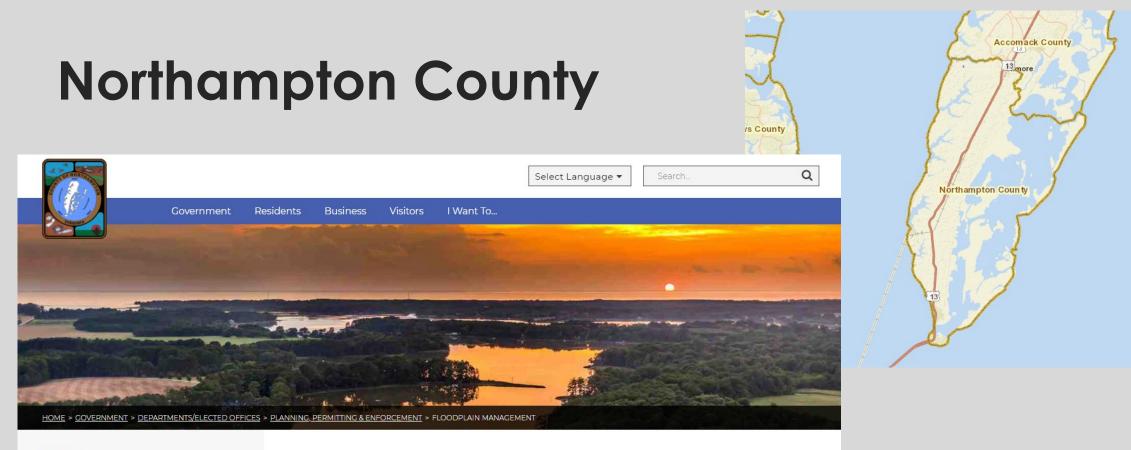


Chincoteague, Virginia Approved January 4, 2010

5 YEAR UPDATES Approved February 2, 2015 Public Hearing February 20, 2020

RESILIENCY GOALS	RESILIENCY OBJECTIVES	RESILIENCY RECOMMENDATIONS	SCHEDULE
GOAL: Enhance the capacity to maintain or regain functionality and vitality in the face of natural, climate-induced, or man-made stressors and disturbances.	<b>OBJECTIVE:</b> Develop and implement a proactive plan for the community to defend from and adapt to long term changes in climate and storm impacts, flooding, water table, vegetation and other environmental factors.	<ul> <li>Implement a wastewater management plan through a phased implementation.</li> <li>Implement drainage management strategies to enhance overall drainage capacity.</li> <li>Reduce the vulnerability of evacuation route and collector roads to storm water and tidal surge inundation.</li> <li>Perform a comprehensive review of shoreline management to identify information gaps and potential projects to help protect the Island.</li> <li>Encourage increased use of natural and nature-based features to increase coastal resilience.</li> <li>Support the establishment of resiliency goals, strategies, and implementations to assist businesses with resiliency planning.</li> <li>Identify critical infrastructure elements, assess their vulnerability, and enhance their resiliency.</li> </ul>	

**RESILIENCY CONSIDERATIONS** 



#### MENU

Building

Planning

Zonina

FLOODPLAIN MANAGEMENT Planning, Permitting & Enforcement FLOOD INSURANCE RATE MAPS (FIRMS) Code Enforcement National Flood Insurance Program sponsored site to allow property owners to view the Flood Insurance Rate Maps (FIRMs). FEMA Determination Letter

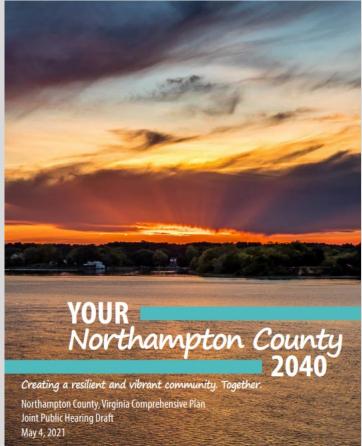


STAFE INFORMATION

Susan McGhee Director

## **Northampton County - Continued**

	Table 4.1 Planning Objectives													
	Preserve agriculture & working waterfronts	Conserve and protect natural resources	Enhance and protect historic resources	Revitalize, rehabilitate, and retrofit	Encourage infill development	Allow new development	Complement local character and identity	Foster housing opportunity	Enhance design & development standards	Improve pedestrian connectivity and safety	Improve access management & traffic flow	Improve wayfinding measures	Incorporate sustainable development standards	Plan for climate change resiliency
Conservation and A Conservation Areas	Agricul	ture	T			1								
Rural Areas	•	•	•			+	•	+	-					
Rural Settlement														
Cottage Communities	•	•	•	•			•							•
Hamlets	•	•	•	•	•		•							
Villages	•	•	•	•	•		•							
Waterfront Communities	•	•	•	•			•							•
Development Area	s													
Towns														



### **Lessons Learned & Challenges Faced**



"I've lived in this house my entire life and the flood waters never came in the yard when I was younger. It seems like every storm brings the water here now."

*"I'm finding that my garden is active later in the Fall by several weeks than back in the 1960s."* 

*"I've hunted here my entire life and I began seeing pelicans here in the mid 1980s. They were never here before.'*  "My family had been working this farm for generations until my grandparents moved away in 1926. The fields became too wet for the tractors. There weren't any crops that could grow there with that much saltwater flooding. There are tidal marsh grasses in the fields now where my family once tilled that land.'

### Thank you for your time!

### Questions?

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