VIRGINIA COASTAL RESILIENCE MASTER PLAN 2021

Public Meeting

PlanRVA

An Overview of Tonight's Meeting

- Welcome and Introductions
- Why does Virginia need a Coastal Resilience Master Plan?
- How will the plan work?
- Introduction to Interactive Stations

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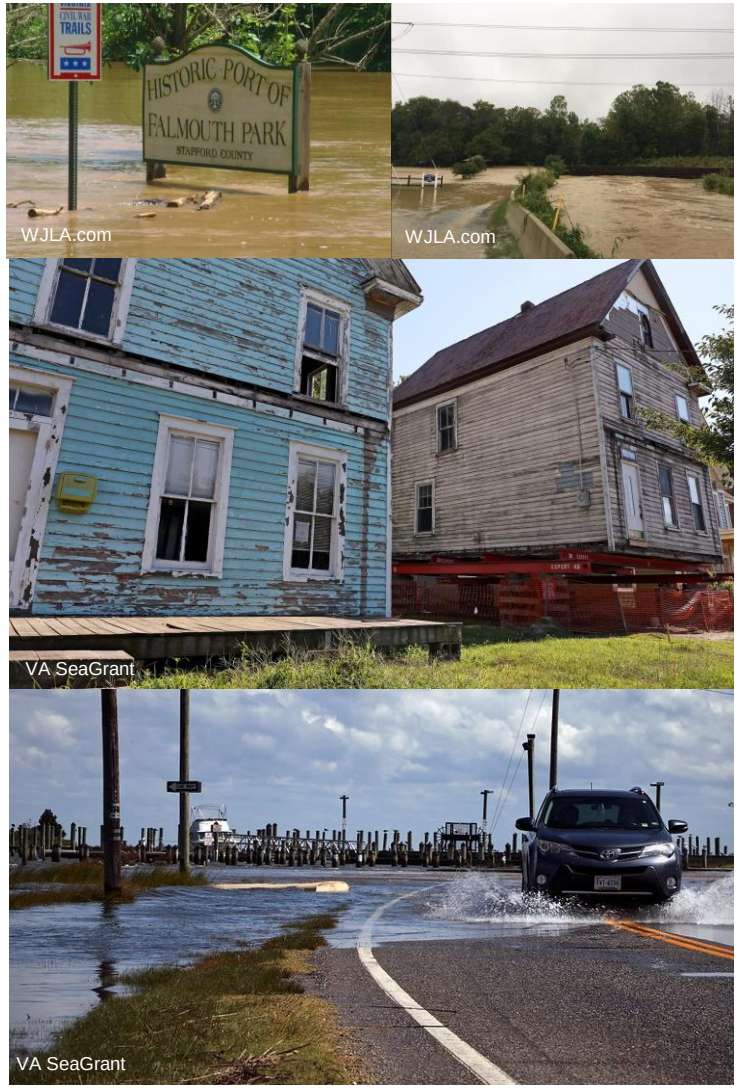
The Challenge

- Over 6 million people, or 70% of Virginia's population, live in coastal areas at risk of flooding.
- In 2018 and 2019, Virginia experienced nine major floods; damage of $1.6 billion.
- Virginia has the highest rate of sea level rise in the east coast, endangering billions of dollars in private property and public infrastructure.



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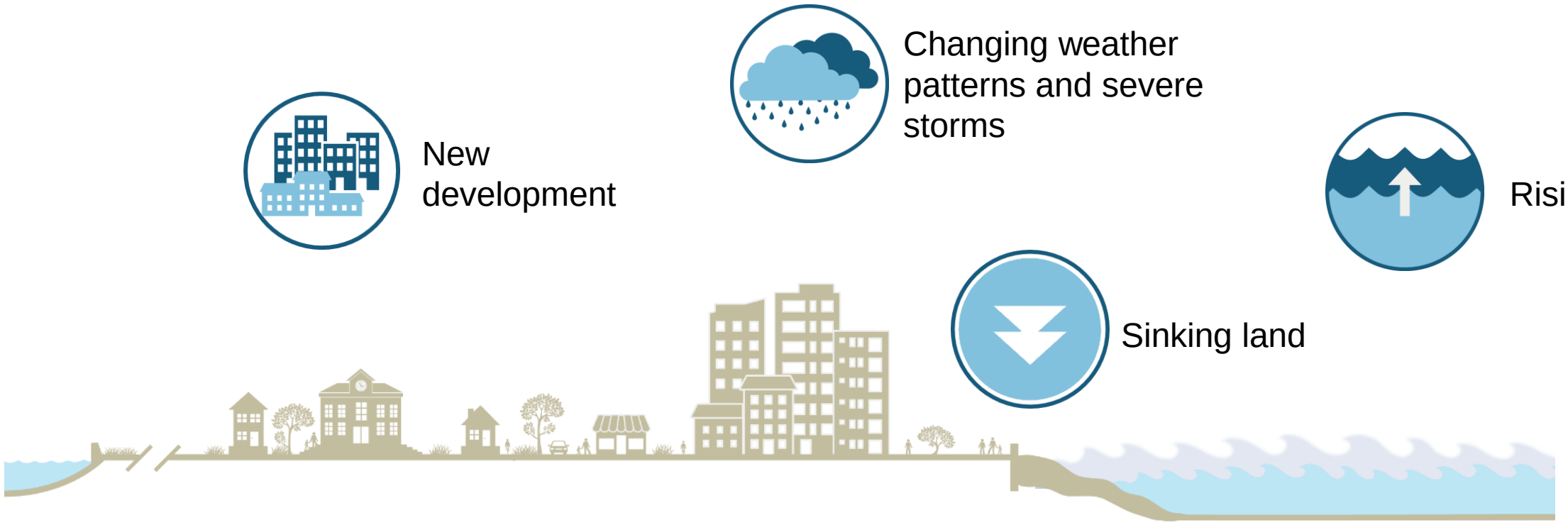
What is driving increased flooding?



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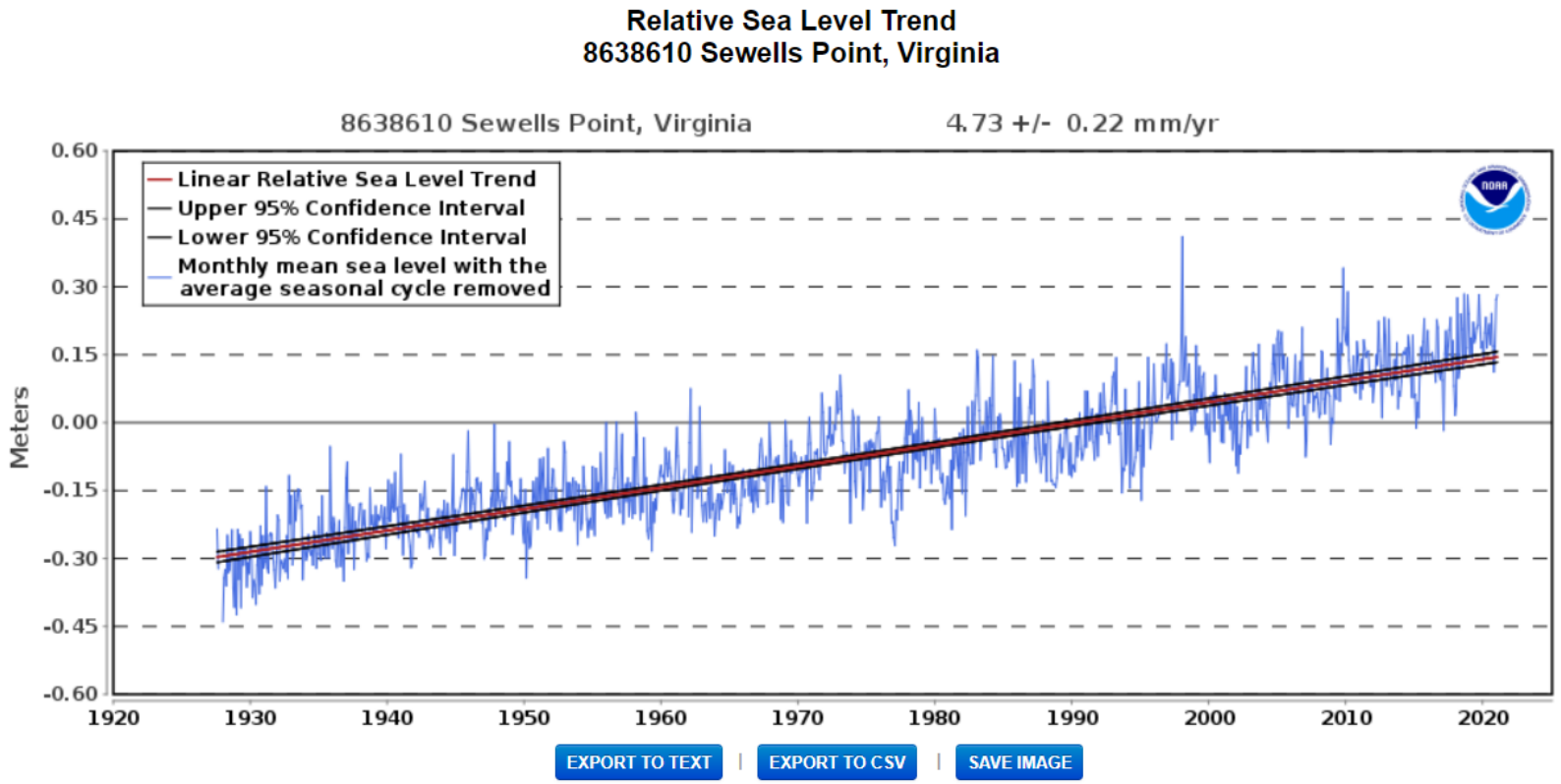
Sea Level Change in Virginia



The relative sea level trend is 4.73 millimeters/year with a 95% confidence interval of +/- 0.22 mm/yr based on monthly mean sea level data from 1927 to 2020 which is equivalent to a change of 1.55 feet in 100 years.

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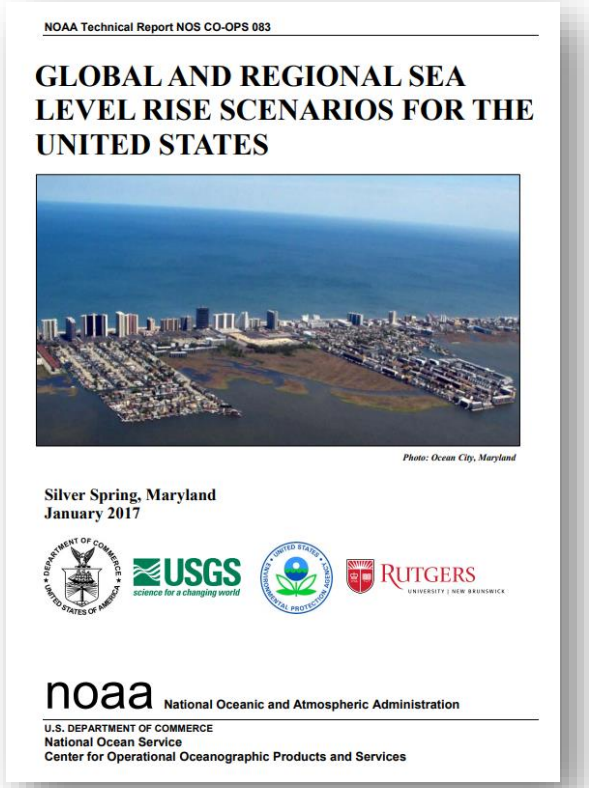
VA Coastal Resilience Master Plan – Sea Level Rise Projections


NOAA Technical Report NOS CO-OPS 083

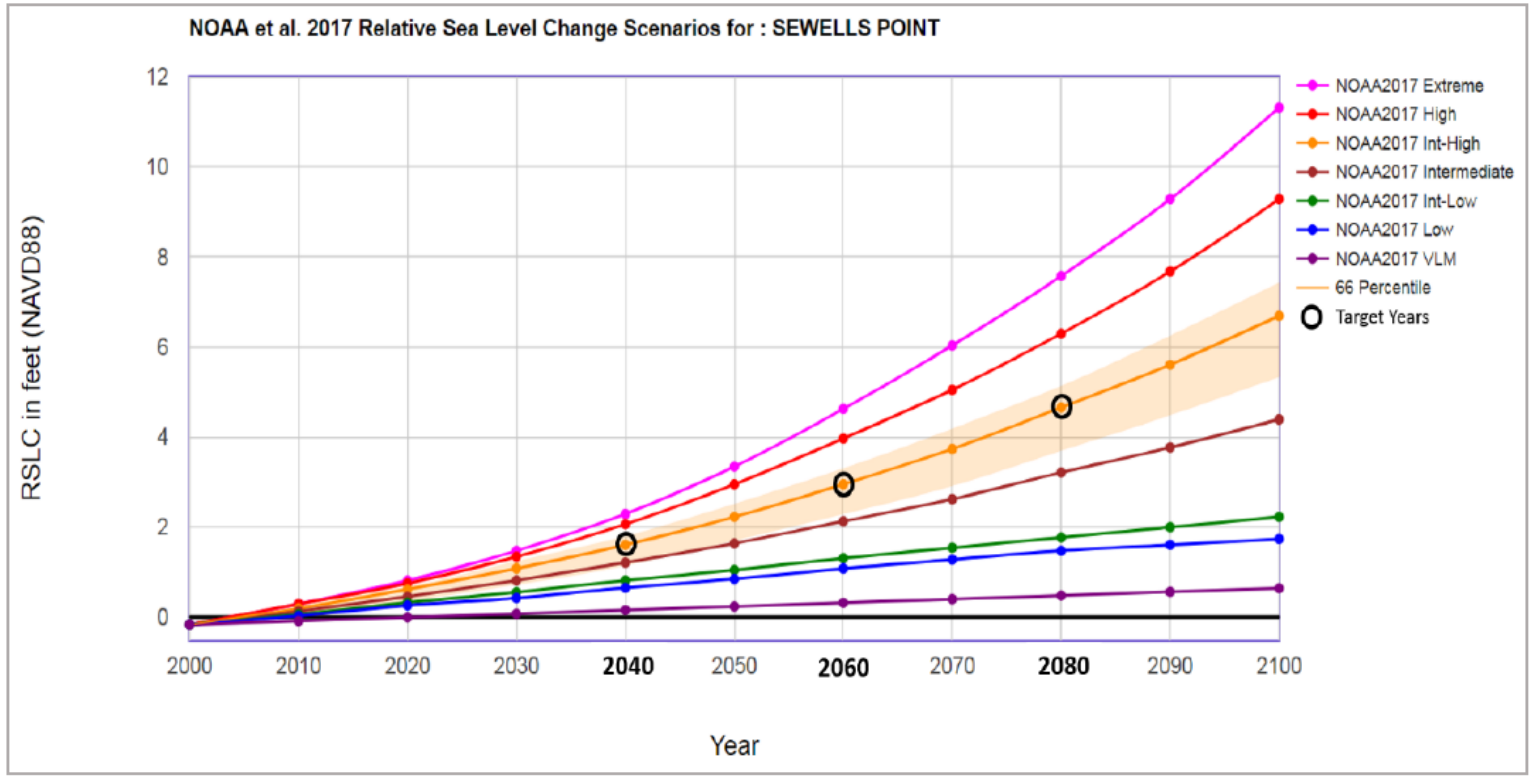
GLOBAL AND REGIONAL SEA LEVEL RISE SCENARIOS FOR THE UNITED STATES

Photo: Ocean City, Maryland

Silver Spring, Maryland
January 2017

noaa National Oceanic and Atmospheric Administration

U.S. DEPARTMENT OF COMMERCE
National Ocean Service
Center for Operational Oceanographic Products and Services



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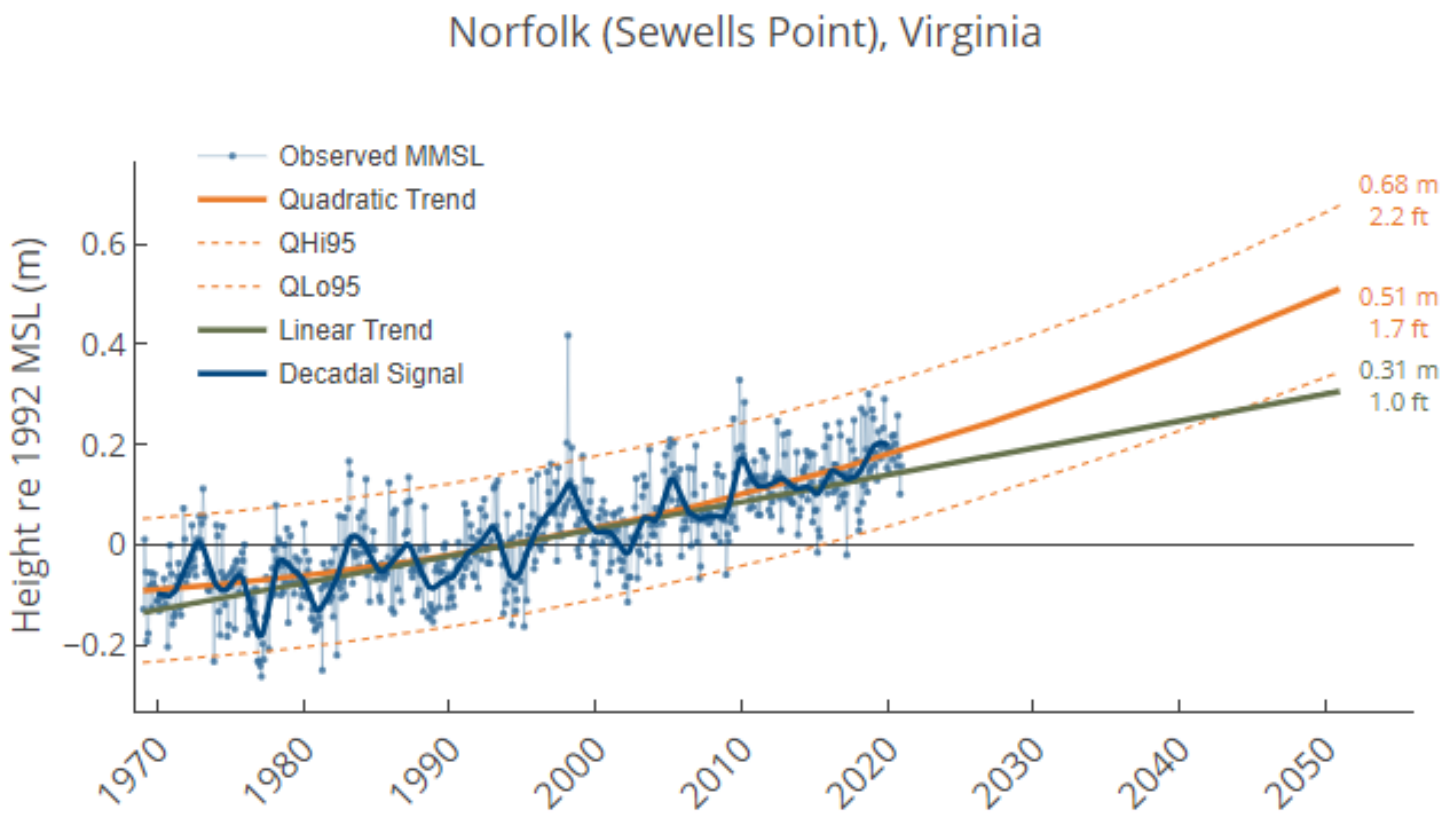
Sea Level Rise is Accelerating

2050 Projection



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Projected Changes in Coastal Flooding

- **In the next 40 years, coastal flooding in Virginia is projected to impact:**
  - 180 thousand more acres of land
  - 400 thousand more people
  - 150 thousand more buildings

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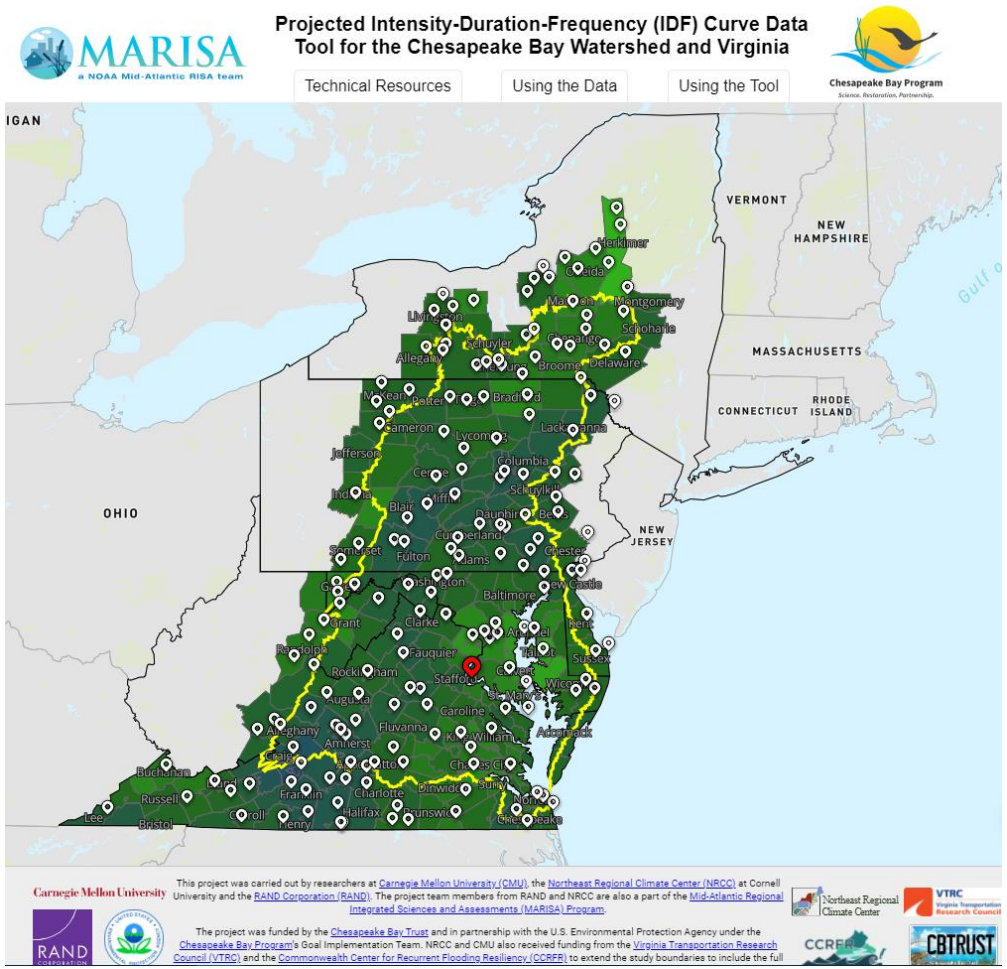
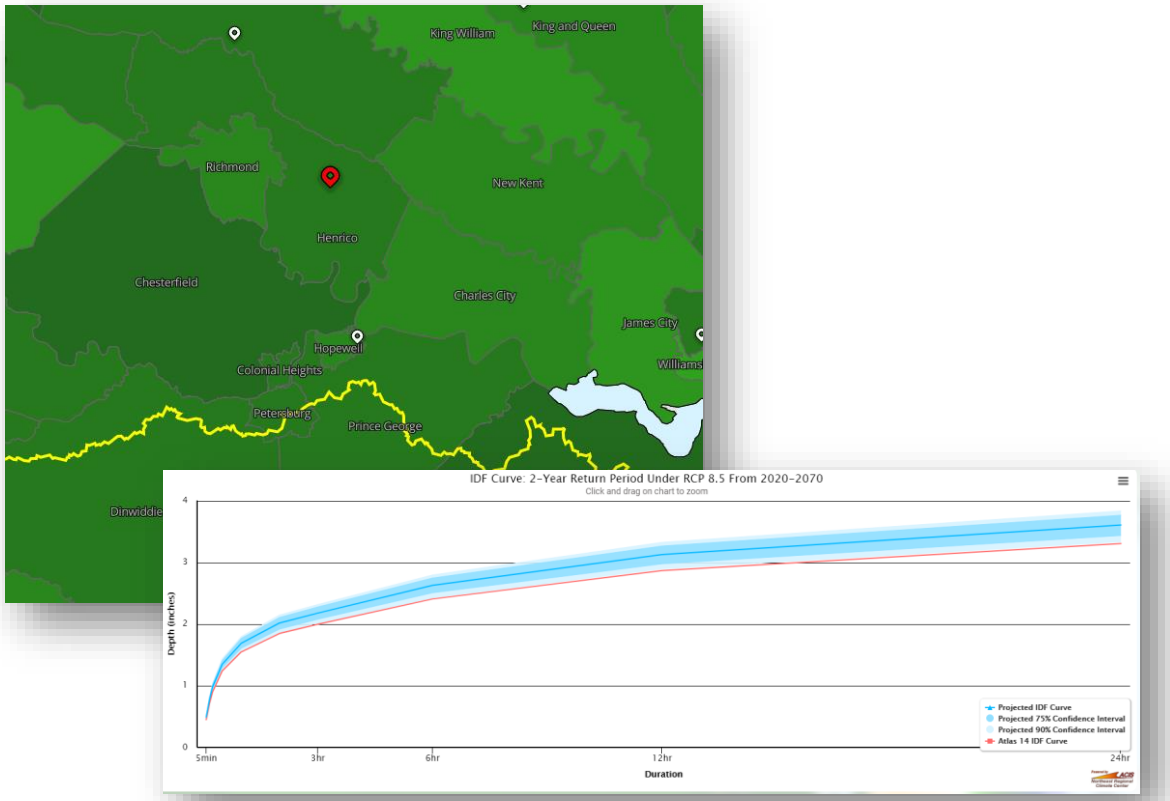
High-Intensity Rainfall is Increasing



https://midatlantic-idf.rcc-acis.org/



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What is resilience?

Strengthen communities' capability to **anticipate**, **prepare for**, **respond to**, **and recover from** hazards

Minimize damage to **social well-being, public health, the economy, and the environment**.

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Why a coastal resilience master plan?

Whole of Government and Community Approach

Ensure Equity

Broader View

Funding Strategy

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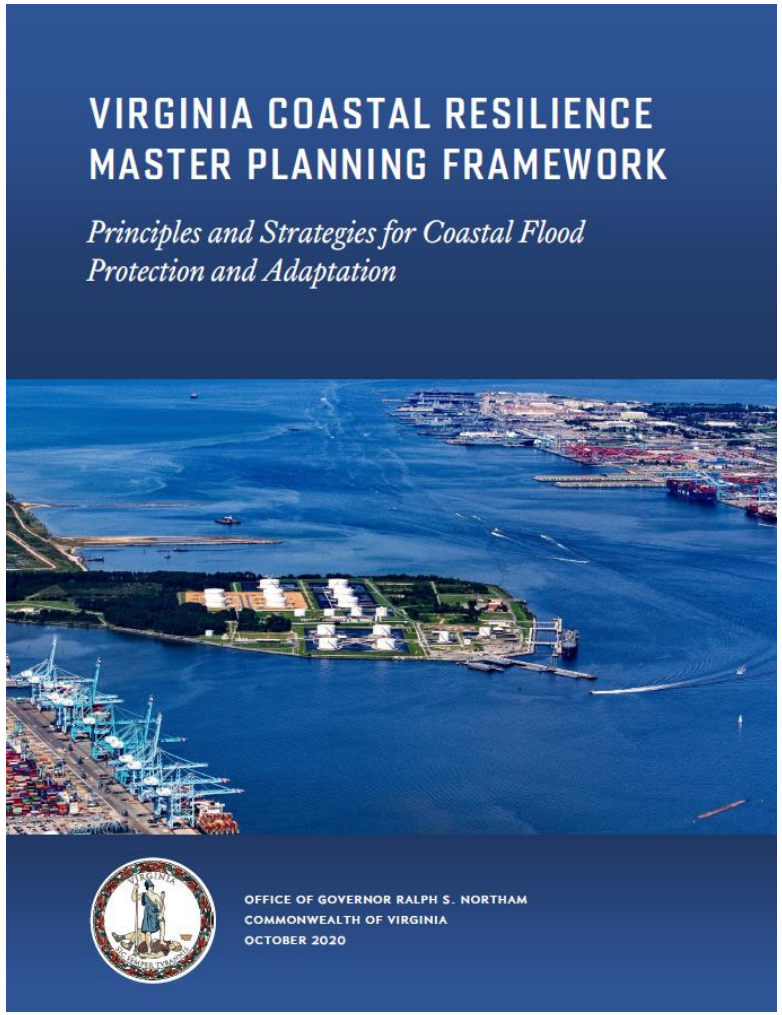
Guiding Principles

- Acknowledge climate change and its consequences, and base decision-making on the best available science.
- Identify and address socioeconomic inequities and work to enhance equity through coastal adaptation and protection efforts.
- Recognize the importance of protecting and enhancing green infrastructure like natural coastal barriers and fish and wildlife habitat by prioritizing nature-based solutions.
- Utilize community and regional scale planning to the maximum extent possible, seeking region-specific approaches tailored to the needs of individual communities.
- Understand fiscal realities and focus on the most cost-effective solutions for protection and adaptation of our communities, businesses and critical infrastructure.



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Goals:

1. Identify and prioritize projects to increase the resilience of coastal communities, including both built and natural assets at risk due to flooding and sea level rise

2. Establish a financing strategy, informed by regional differences and equity considerations

3. Incorporate and promote climate change projections into Commonwealth's programs addressing coastal adaptation and protection

4. Coordinate state, federal, regional, and local coastal region adaptation and protection efforts

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2021 Coastal Master Plan

- Short-term Priorities
- Capacity Building
- Long-term Needs
- Funding Requirements

Learn and Improve

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Interactive Stations

Survey Station

Fill out a survey describing your experience with coastal and other flooding hazards.

Comment Station

Identify your flooding experiences and ideas for flood protection and mitigation actions.

Map Station

Review maps of current and future flood hazards and impacts. Help us identify other problem areas that are not included.

Visioning Station

What does a resilient community look like for your in 30-50 years? What are the priorities?

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@NatResourcesVA

@VaCoastalResilience

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Website:

www.virginia.gov/coastalresilience

Email Questions or Comments to:

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