

Public Meeting

George Washington Regional Commission

Commonwealth of Virginia Working Document - Contents Considered Draft and Subject to Change





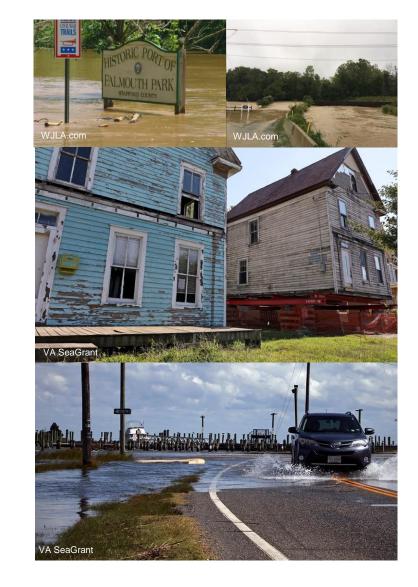
An Overview of Tonight's Meeting

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



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.





What is driving increased flooding?





Changing weather patterns and severe storms



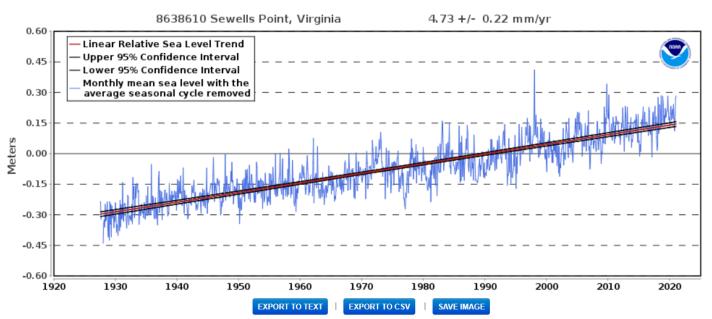






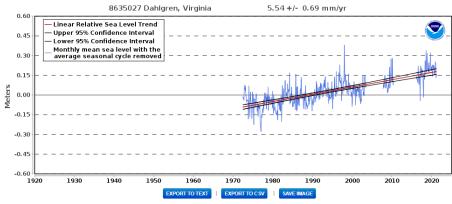
Sea Level Change in Virginia

Relative Sea Level Trend 8638610 Sewells Point, 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.

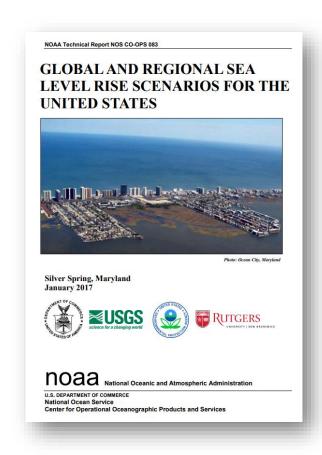
Relative Sea Level Trend 8635027 Dahlgren, Virginia

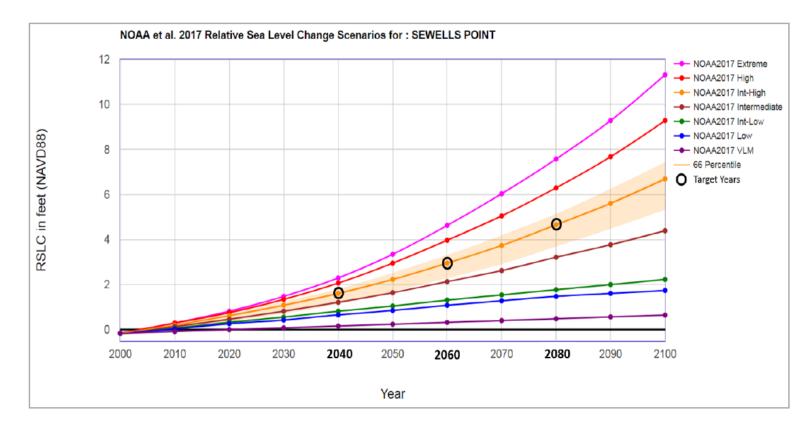


The relative sea level trend is 5.54 millimeters/year with a 95% confidence interval of +/- 0.69 mm/yr based on monthly mean sea level data from 1972 to 2020 which is equivalent to a change of 1.82 feet in 100 years. Earlier data stored in database as station 8635150



VA Coastal Resilience Master Plan Sea Level Rise Projections



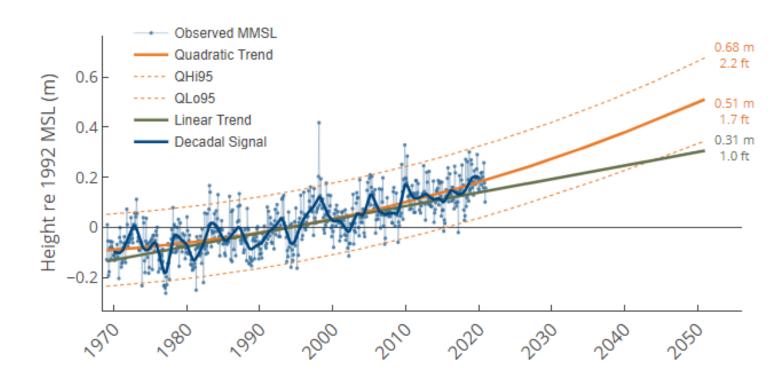




Sea Level Rise is Accelerating

2050 Projection

Norfolk (Sewells Point), Virginia



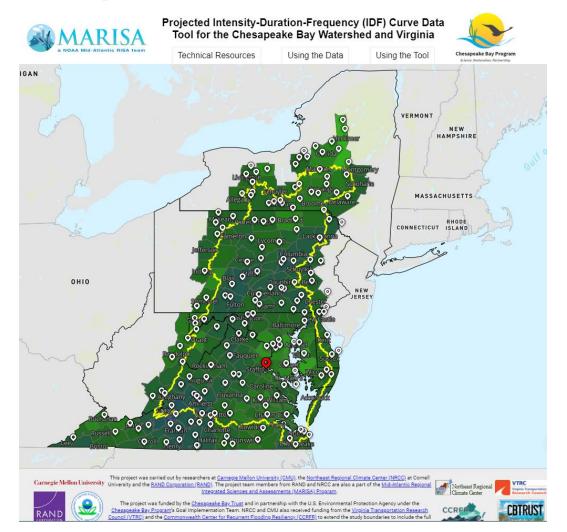


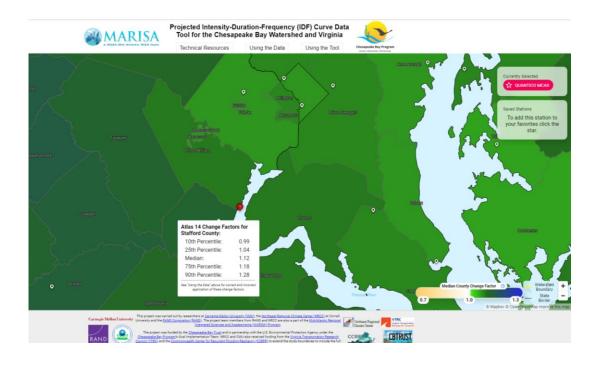
Projected Changes in Coastal Flooding

- 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



High-Intensity Rainfall is Increasing







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.



Why a coastal resilience master plan?

Whole of Government and Community Approach



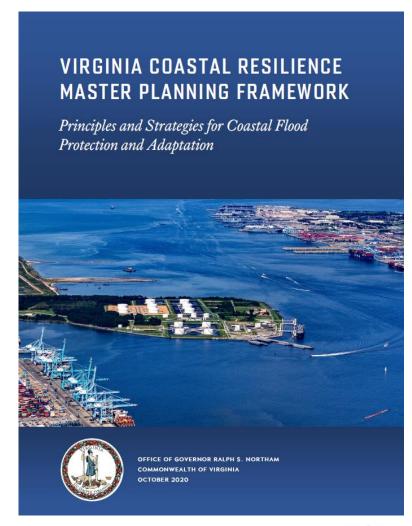






Guiding Principles

- 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 costeffective solutions for protection and adaptation of our communities, businesses and critical infrastructure.

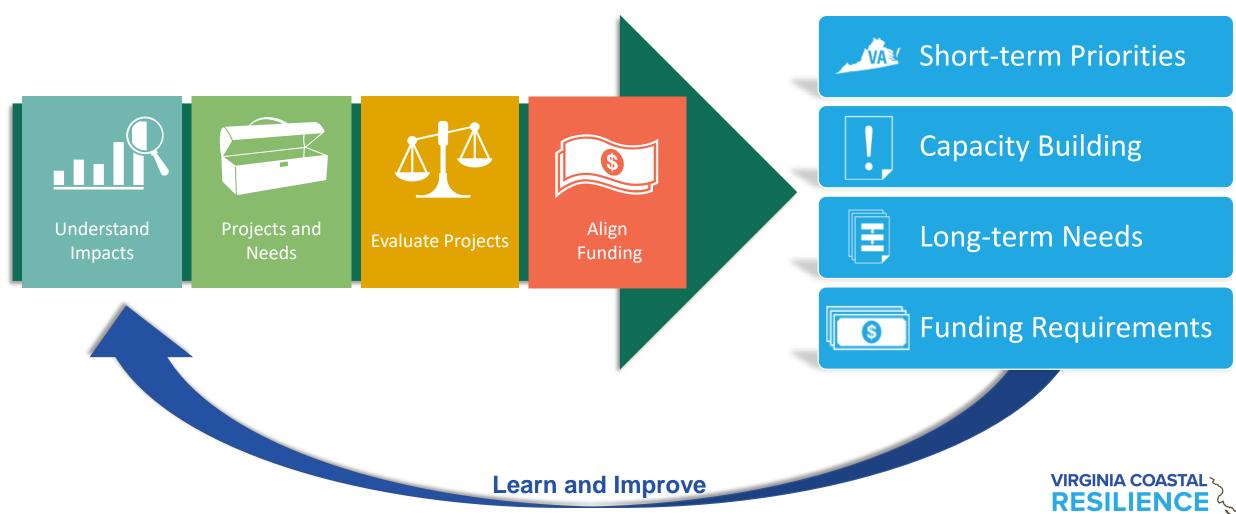


Goals:

- 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



2021 Coastal Master Plan



Interactive Stations

Survey Station

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

Map Station

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

Comment Station

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

Visioning Station

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









Website:

www.virginia.gov/coastalresilience

Email Questions or Comments to: resilientcoastVA@governor.virginia.gov

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