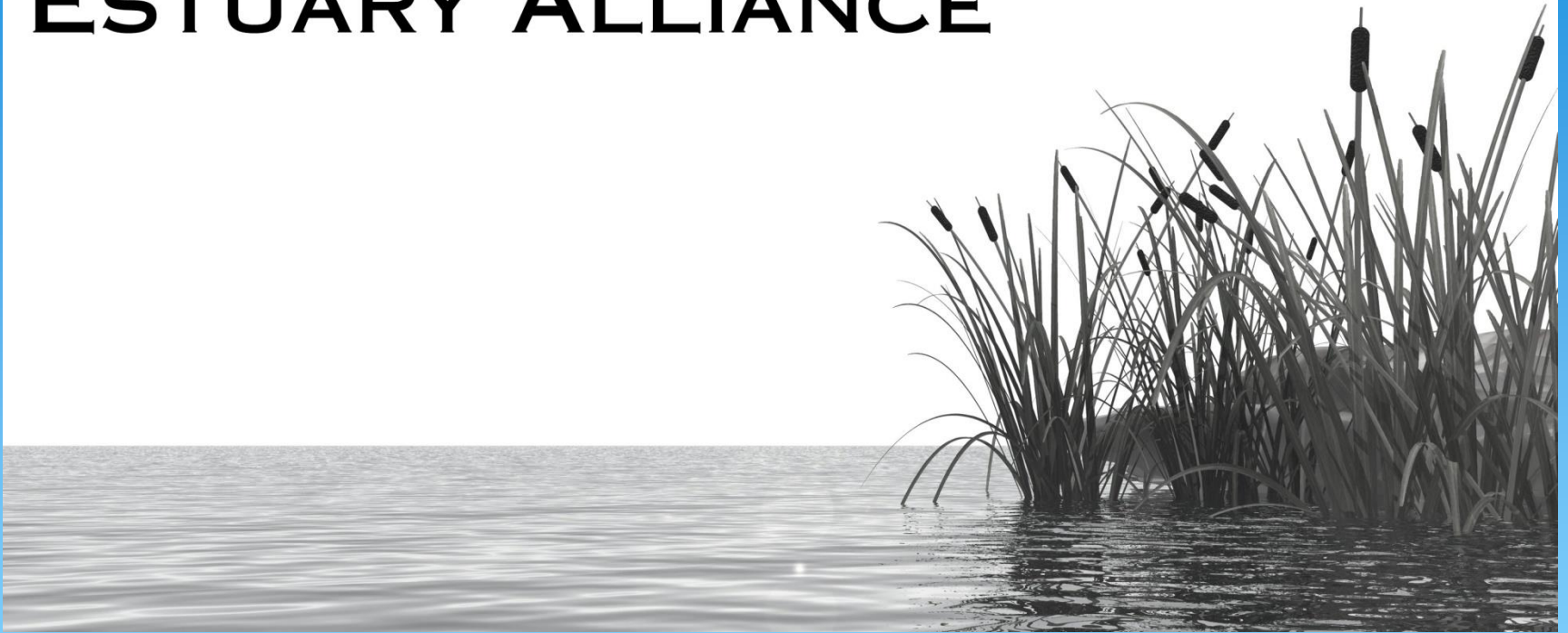


SEABROOK-HAMPTONS ESTUARY ALLIANCE



Jay Diener and Rayann Dionne

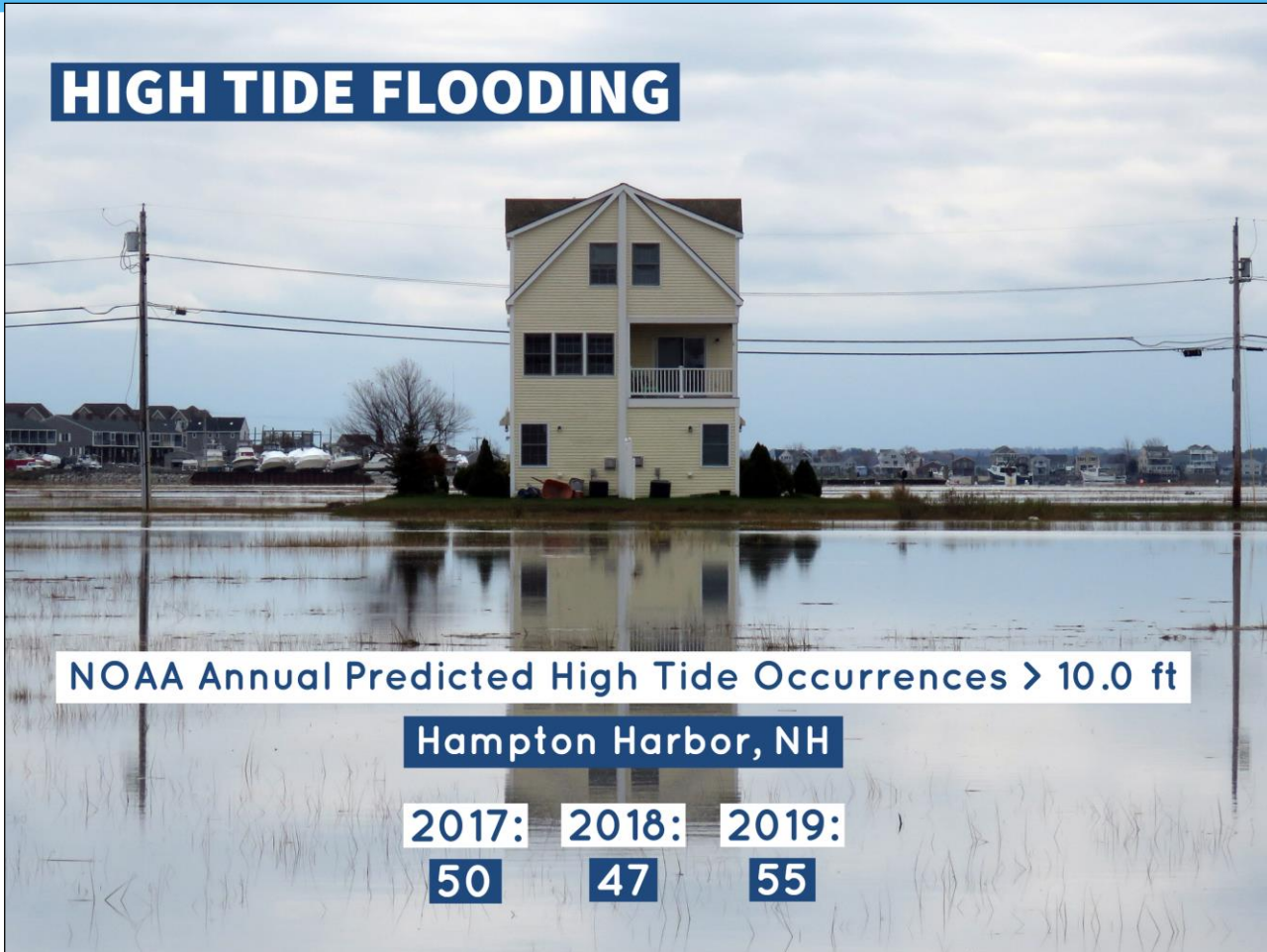
Presented at the BOS Meeting on 10/29/2018 – see channel 22 for video

What causes coastal flooding?



How often does coastal flooding occur?

HIGH TIDE FLOODING

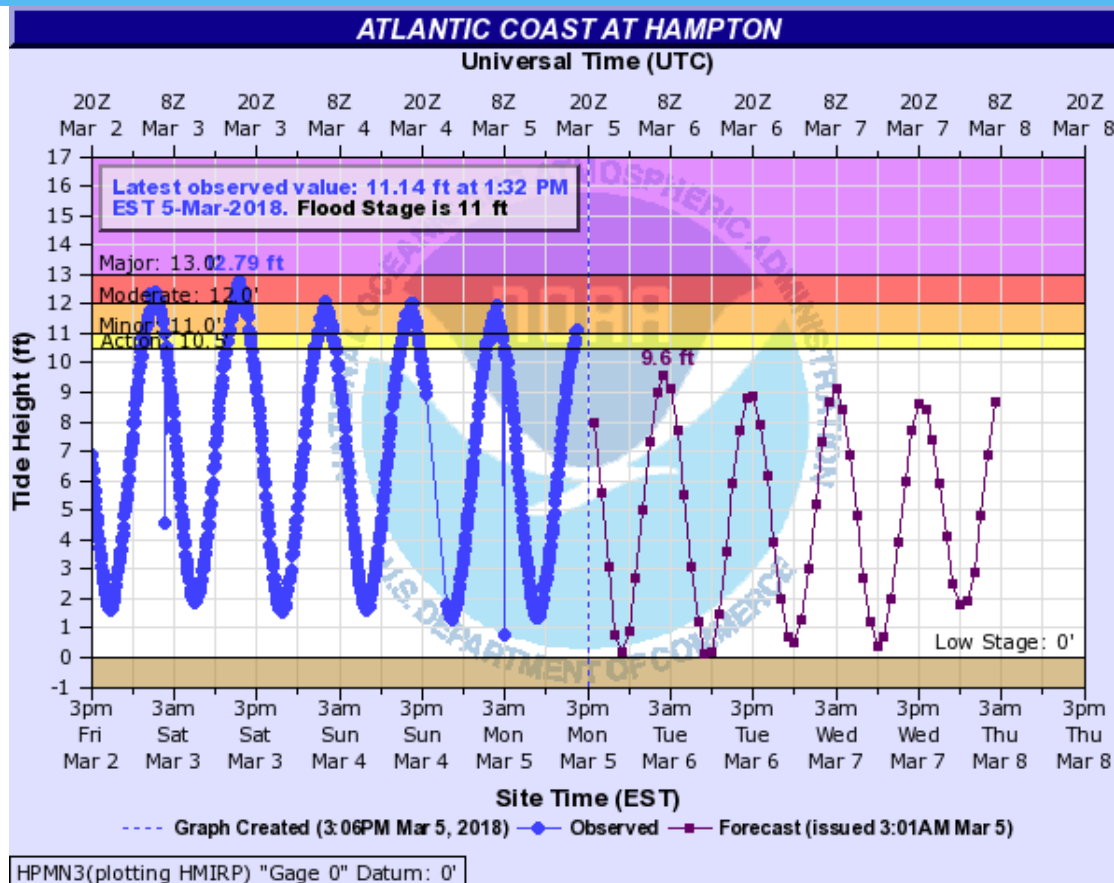


NOAA Annual Predicted High Tide Occurrences > 10.0 ft

Hampton Harbor, NH

2017:	2018:	2019:
50	47	55

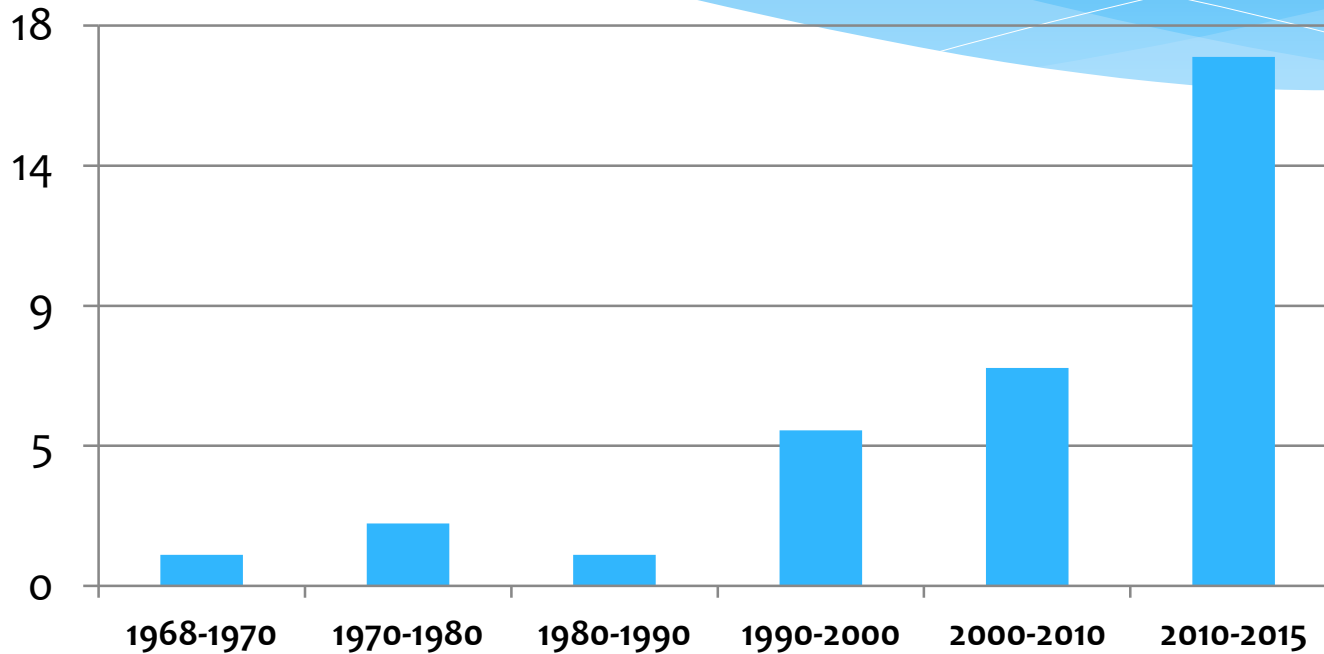
NOAA's National Weather Service Atlantic Coast Hydrographs – Hampton NH



Hampton - <https://bit.ly/2sNq8Tl>

Coastal Flooding Events: 1968-2015

Major Coastal Flooding Events



Data from the 2016 Hazard Mitigation Plan

61% of structure are located in FEMA Flood Hazard Zones
31% of structures are located in the 100-year Floodplain

Building A Flood Smart Seacoast

Ways to Protect Your Property From Coastal Flooding SHEA & NHDES Coastal Program

Workshop #1

- Intro to coastal flooding & property-level resilience strategies

Workshop #2

- Options for protecting existing homes from coastal flooding

Workshop #3

- Smart shoreline stabilization approaches

Workshop 1 - Intro to Coastal Flooding & Property-Level Resilience Strategies

Participants learned about:

- * The protective value of sand dunes and salt marshes
- * Why we are seeing more flooding
- * How to determine if your property is in a floodplain
- * The value of an elevation certificate
- * DIY projects to build property resiliency

Take-aways:

1. Dunes and marsh provide tremendous protection.
2. There is a lot we can do to protect our homes that doesn't have to cost a lot.

Workshop 2 - Options for Protecting Existing Homes from Coastal Flooding

Participants learned about:

- * Flood Insurance basics – what is protected
- * Homeowner experience with flood damage
- * Components of elevating an existing structure
- * The environmental permitting process for elevating a structure

Take-aways:

1. Flood insurance is complex and expensive, but also immensely important.
2. Tidal waters can exert tremendous pressure on structures that can be offset by elevating those structures.

Workshop 3 -Smart Shoreline Management

Participants learned about strategies for:



Keeping the Water Out Living with the Water Getting out of Water's Way

Take-away: Understanding how much water you can tolerate and what your property can handle is critical to determining which strategy to employ to deal with flooding.

Workshop Feedback

What is the value of elevating structures if road access is restricted due to flooding? Will the Town will consider raising some roads if they flood frequently?

Are the Town's building codes and planning ordinances are adequate, given the increases in flooding?

Workshop Feedback

Can the Town reduce the number of Zoning variances granted in flood-prone areas?

Can Town drainage can be improved in areas that flood frequently?

Workshop Feedback

What role will the Town play to help flooded property owners?

- * Constructing barriers to help protect property
- * Limiting development in flood-prone areas
- * Tax rebates to help owners dealing with flooding
- * Secure state/federal loans to help flooded property owners recover.

Next Steps - Flood Smart Roundtable

- * Bi-monthly meetings
- * Community driven discussion topics
- * Bring in local/regional experts



Resilient Tidal Crossing project



- * NHDES Coastal Program – NOAA grant
- * Assessed 120 tidal crossings
- * Help communities prioritize drainage projects, apply for grants, and update Capital Improvement plans

2019 Hampton Conservation Commission Warrant Articles

- * Increase Freeboard flexibility up to 3 feet
- * Exclude wetlands and buffer from minimum lot size and minimum lot size per dwelling unit calculation
- * Elevate buildings on pilings in the Wetlands Conservation District



Next Steps – Climigration Grant

Step 1 -

- * Survey to understand concerns, needs, fears
- * Develop a consensus-building process incorporating the learning from the survey

Step 2 –

- * Work within the process to help the Town identify and evaluate adaption strategies to deal with coastal flooding

Objective: With input from Town officials, create plans for implementation of adaptation and retreat policies and procedures for Hampton