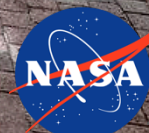


# Sea Level Hotspots from Florida to Maine Drivers, Impacts and Adaptation

April 23 – 25 | Norfolk, VA

Workshop Opening Remarks

sponsored by:



# Acknowledgments





# Background & Motivation

## Rising seas threaten Norfolk Naval Shipyard, raising fears of 'catastrophic damage'

"Every year you wait to make decisions and take actions, the risk goes up," said retired Rear Adm. Jonathan White.

**NEWS**

## Miami Beach wants to fast-track work to battle sea-level rise



BY JOEY FLECHAS  
[jflechas@miamiherald.com](mailto:jflechas@miamiherald.com)

March 11, 2016 08:37 PM  
Updated March 11, 2016 09:46 PM

**Miami Herald**

## *Flooding of Coast, Caused by Global Warming, Has Already Begun*

Scientists' warnings that the rise of the sea would eventually imperil the United States' coastline are no longer theoretical.

**New York Times**

## Rising seas could knock out the internet — and sooner than scientists thought



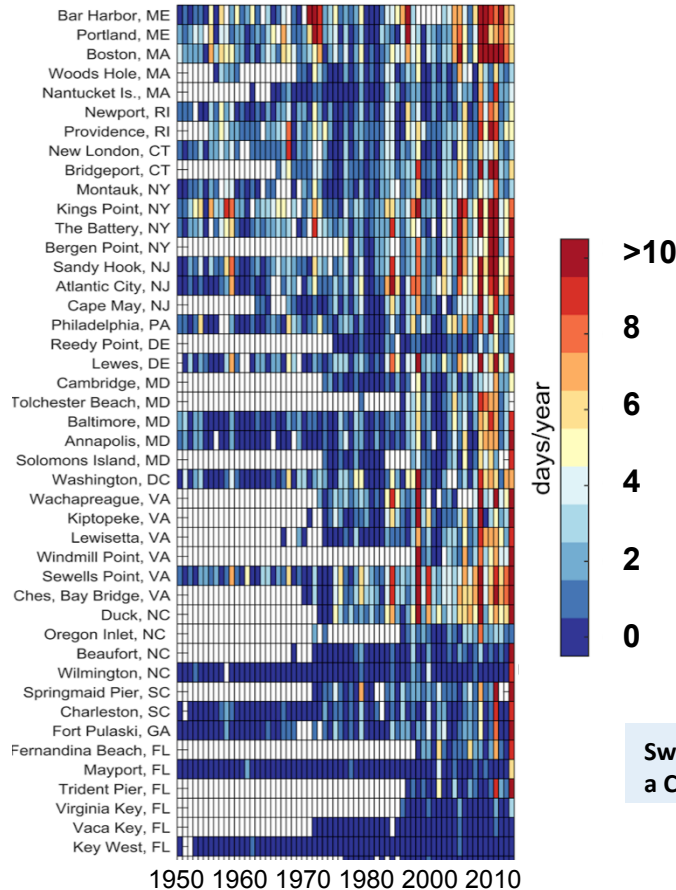
New research says 4,000 miles of internet cable could be underwater by 2030.



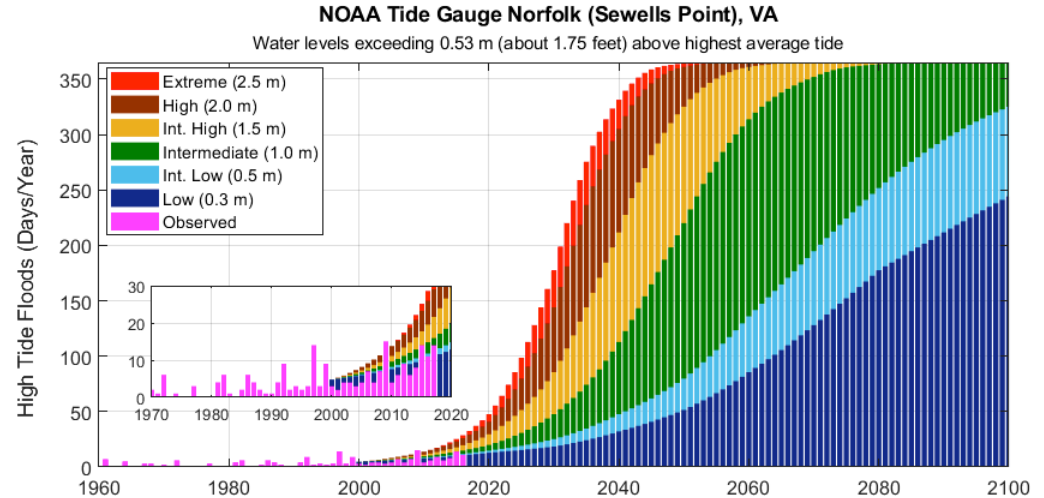
Credit: New York Times

# Background & Motivation

## Observed number of flooding days



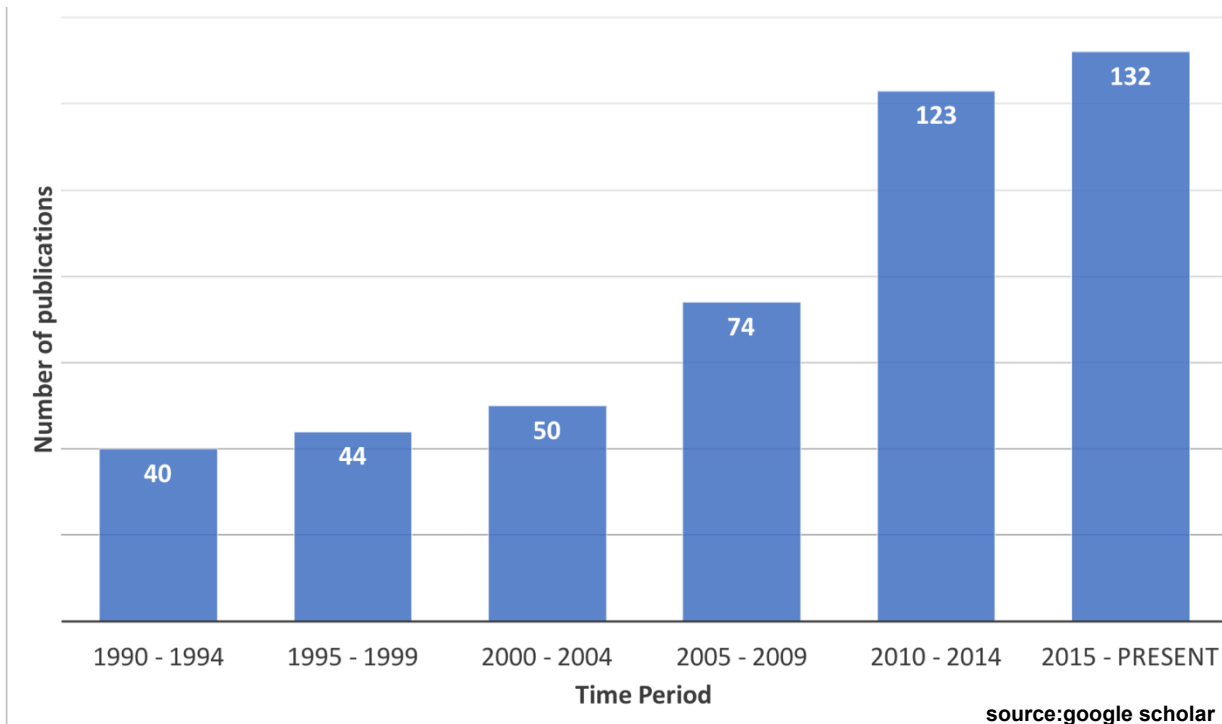
## Future projections



Sweet et al., (2018). Patterns and Projections of High Tide Flooding Along the U.S. Coastline Using a Common Impact Threshold. s.l. : NOAA Technical Report NOS CO-OPS, 2018. Vol. 86.

# Background & Motivation

Number of peer-reviewed scientific publications with the words “Sea Level” and “United States” or “U.S.” in the title



# Context

## Examples of ongoing efforts

- **NASA's Sea Level Science Team (established in 2014)**
- **NOAA Sea Grant, Regional Associations, and RISAs**
- **NSF Coastlines and People (CoPe) Initiative**
- **The WCRP Grand Challenge on Regional Sea Level Change and Coastal Impacts**

## Previous Meetings

- **WCRP-IOC Regional Sea Level Changes and Coastal Impacts Conference, New York, July 2017**
- **NASA Sea Level Team Meeting, March 2019**

# Workshop Goal

Bring together the scientific community, decision makers, coastal stakeholders and practitioners to discuss the state-of-the-art of knowledge about sea-level changes from Florida to Maine

# Key Questions & Objectives

- 1. What are the efforts already in place and aimed at mitigating effects of sea level rise and improving overall coastal resilience?**
- 2. Where are we with the science? What do we know about the drivers, the uncertainty, and the future of sea level rise?**
- 3. What are the tools and monitoring resources currently available?**
- 4. What are the best practices for linking scientific information with decision-making support tools? What are the gaps that need to be addressed?**



# Agenda Overview

## Day 1: Tuesday, April 23

Session 1: Current Efforts and Plans to Improve Coastal Sea Level Resilience

Session 2: What can the natural sciences provide? What are open research questions?

Lightning Talks - > Posters

## Day 2: Wednesday, April 24

Breakout Group Discussions

Session 3: What are the tools currently available? What are the needed innovations, and observations?

Evening Walking Tour

## Day 3: Thursday, April 25

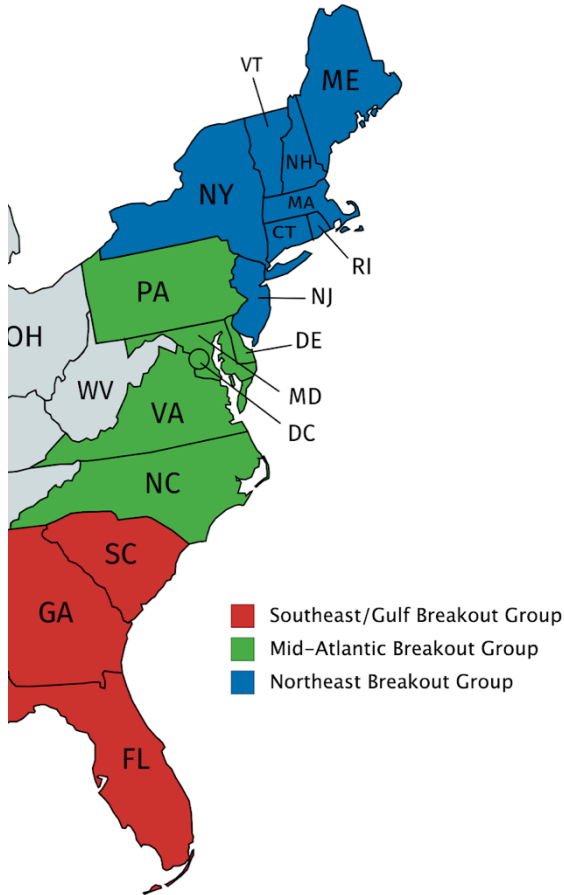
Breakout Group Reports

Plenary Discussion of Next Steps

# Why Breakout Groups?

- **This is an interactive workshop, not death by slides.**
- **Key workshop design objectives include:**
  - **Fostering interactions between the scientific community, coastal managers, and adaptation professionals**
  - **Learning from case studies (grouped by regions)**
  - **Identifying gaps in knowledge, tools, data, and communication.**
  - **Design avenues to address these gaps.**
  - **Synthesize the design in pitches for delivery to the plenary.**

# What are the Breakout Groups?



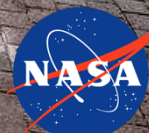
1. Breakouts by Region: NE, Mid-Atlantic, SE/  
Gulf of Mexico
2. Breakouts by Region (continued)
3. Breakouts by targeted topics determined  
from discussions

# Welcome from Norfolk

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# Housekeeping Reminders

- Upload presentations
- Sign up for walking tour