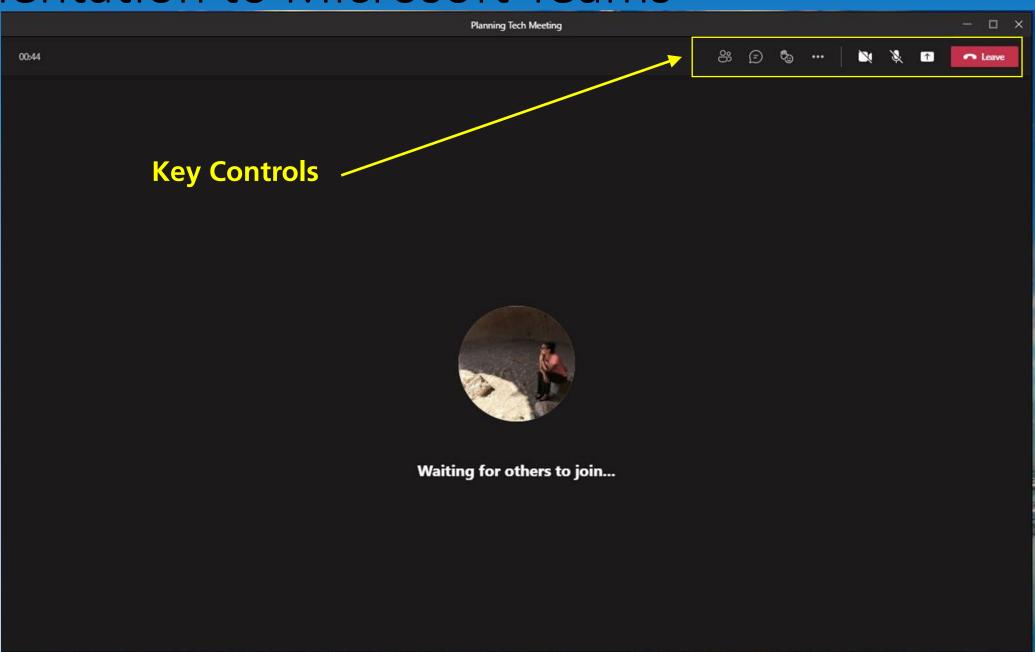
# Ocracoke Light Station Preservation Project

Cape Hatteras National Seashore
Ocracoke Island, North Carolina
May 10, 2021

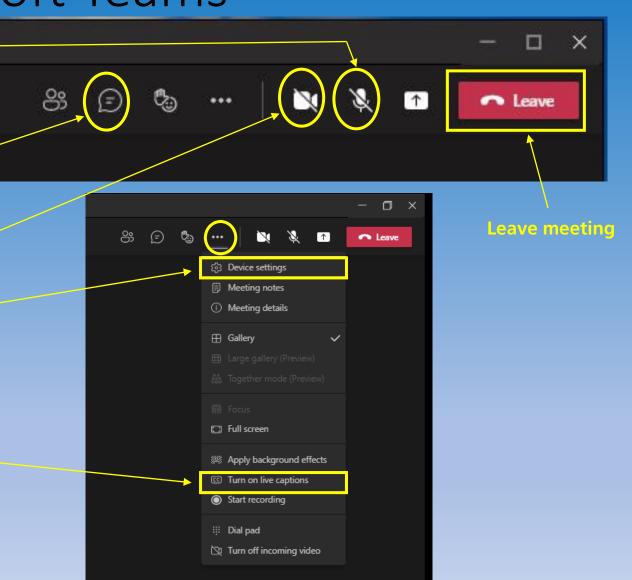


#### Orientation to Microsoft Teams



#### Orientation to Microsoft Teams

- Please mute your microphones on computers and phones
- Please wait to submit your comments or questions until after the presentation
- Please turn off video cameras to improve your connection and bandwidth
- Volume
- Captions



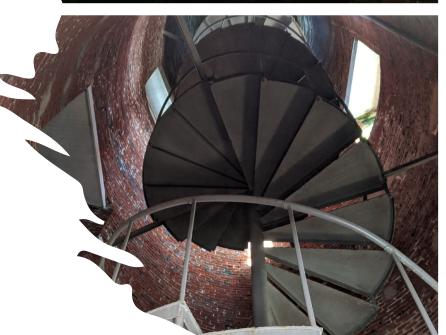
#### **NPS Staff**

- **David Hallac-** Superintendent, Cape Hatteras NS
- Mark Dowdle- Deputy Superintendent, Cape Hatteras NS
- Sabrina Henry- Environmental Protection Specialist, Cape Hatteras NS
- Meaghan Johnson- Deputy Chief of Resource Management and Science, Cape Hatteras NS
- Jami Lanier- Cultural Resources Manager/Historian, Cape Hatteras NS
- Amy Thompson- Ocracoke Supervisory Biological Technician, Cape Hatteras NS
- Scott Babinowich- Chief of Interpretation, Education and Visitor Services, Cape Hatteras NS
- John Kowlok- Chief of Facility Maintenance, Cape Hatteras NS
- Todd Fappiano- Operations Supervisor, Cape Hatteras NS
- Nelson Pendleton- Engineer, Cape Hatteras NS
- Ed Fuller- Ocracoke District Ranger, Cape Hatteras NS

- Jami Hammond- Regional Environmental Coordinator, South Atlantic Gulf Region
- Darrell Stone- Contracting Officer Representative, Storm Team South Atlantic Gulf Region
- Pam Baughman Section 106 Coordinator, Storm Team South Atlantic Gulf Region
- Anne Finney-Historian, Storm Team South Atlantic Gulf Region
- **Stephen Lacey-** Archeologist, Storm Team South Atlantic Gulf Region
- Byron Tsang- Wetland Ecologist, Storm Team South Atlantic Gulf Region
- Linda York-Coastal Geologist, Storm Team South Atlantic Gulf Region
- Whitny Howeth- Wildlife Specialist, Storm Team South Atlantic Gulf Region
- Paul Alimia- NEPA Specialist, Storm Team South Atlantic Gulf Region

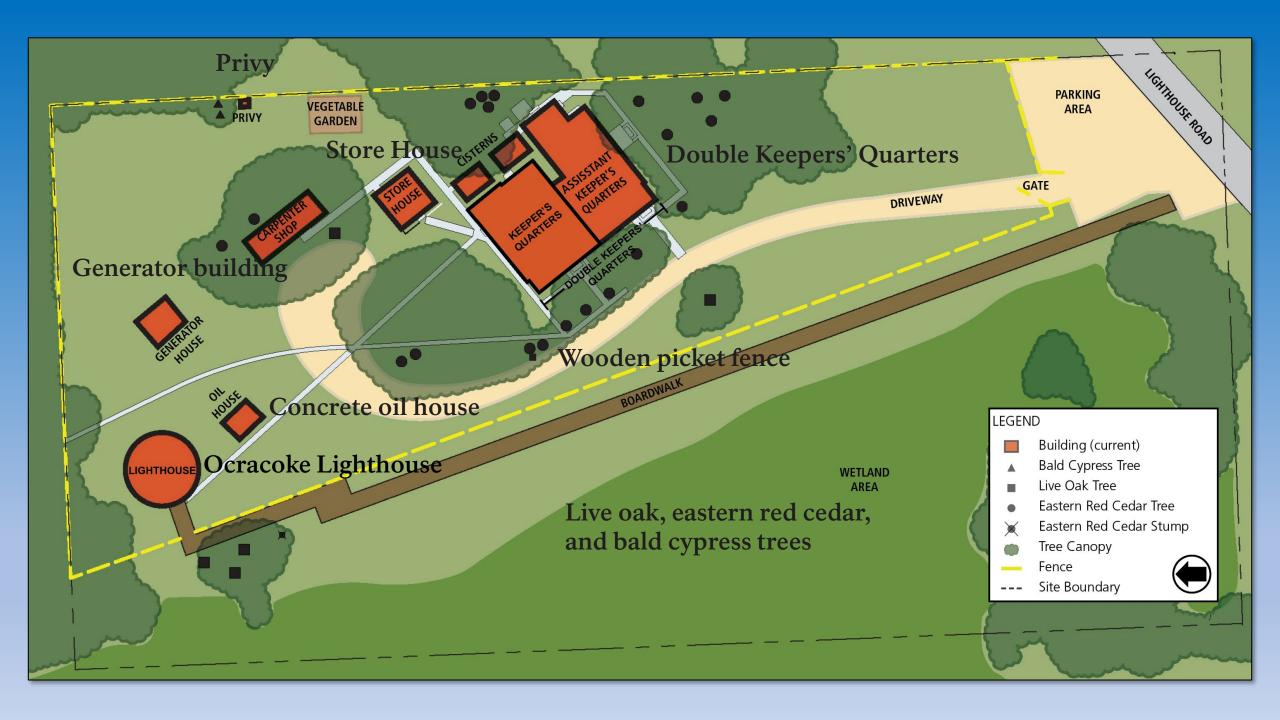
- 1823 Oldest functioning lighthouse in North Carolina
- Second oldest lighthouse still in service in the U.S.
- Project objective: How to manage the complex of buildings and exterior of the lighthouse in the face of sea level rise and storms?





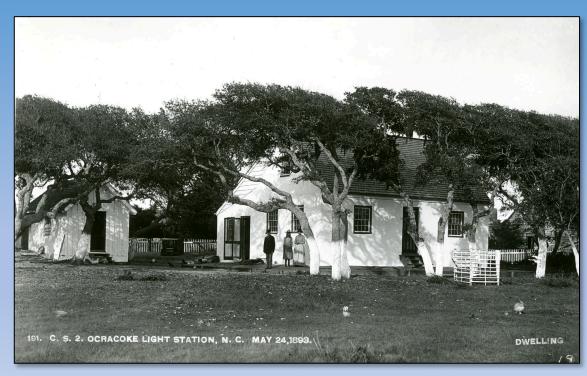






#### Keeper's Quarters

- Originally a 5-room, 1 ½-story brick dwelling with an upper living level
- Numerous repairs beginning in 1855
- In 1929, expanded to create a double dwelling





Keeper's Quarters, 1893

**Double Keeper's Quarters, current** 

## Then and Now





**Ocracoke Light Station 1893** 

**Ocracoke Light Station 2016** 

### Management at sea level

- Hurricanes Mathew, Florence, and Dorian.
- Severely flooded from Hurricane Dorian in 2019

















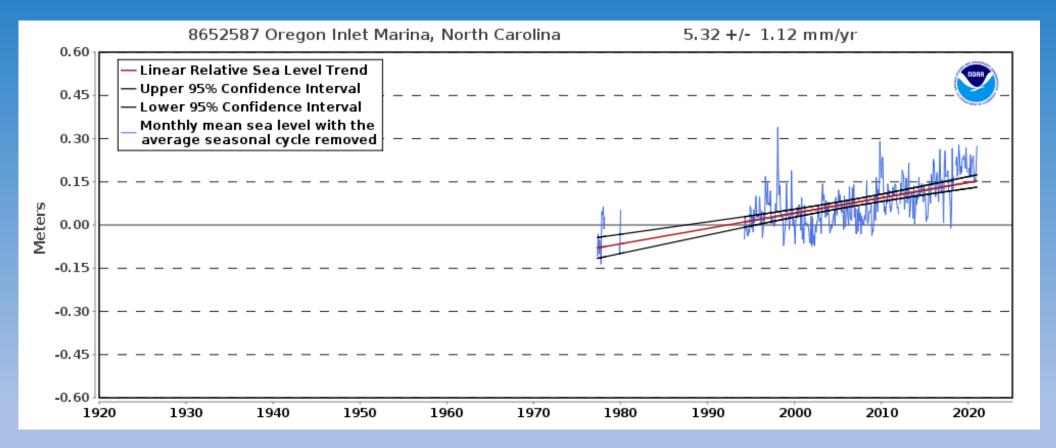


#### Period of Interpretation (1823-1846)



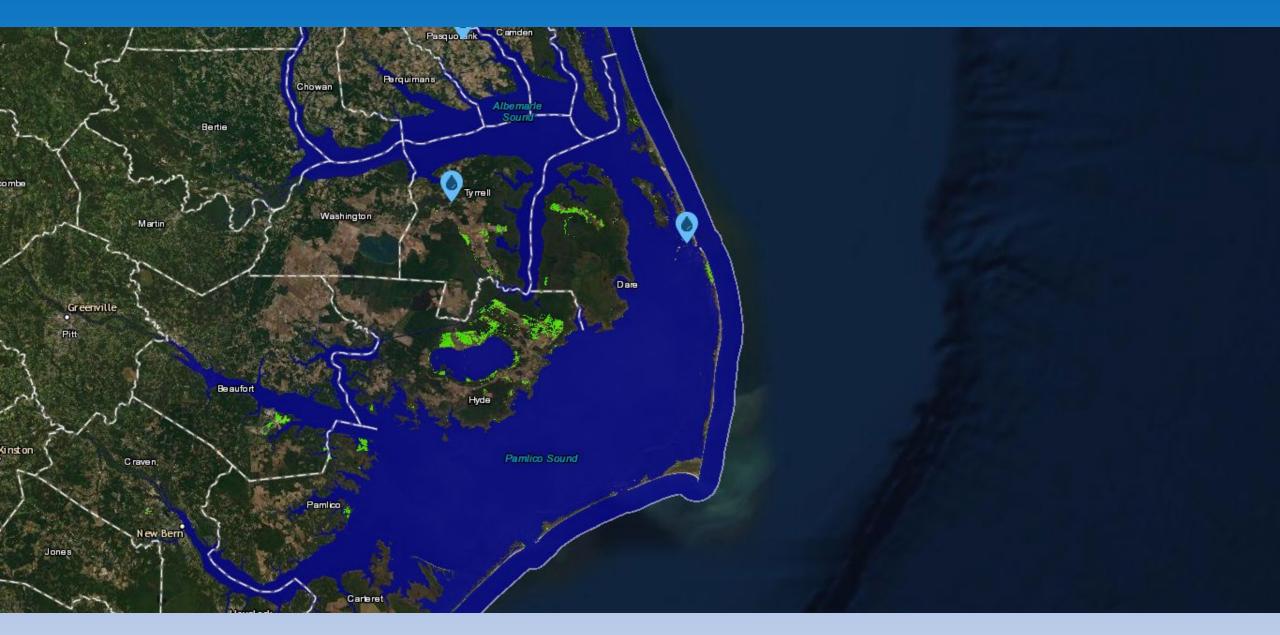


### Current rate of sea level rise = 5.32 +/- mm/yr

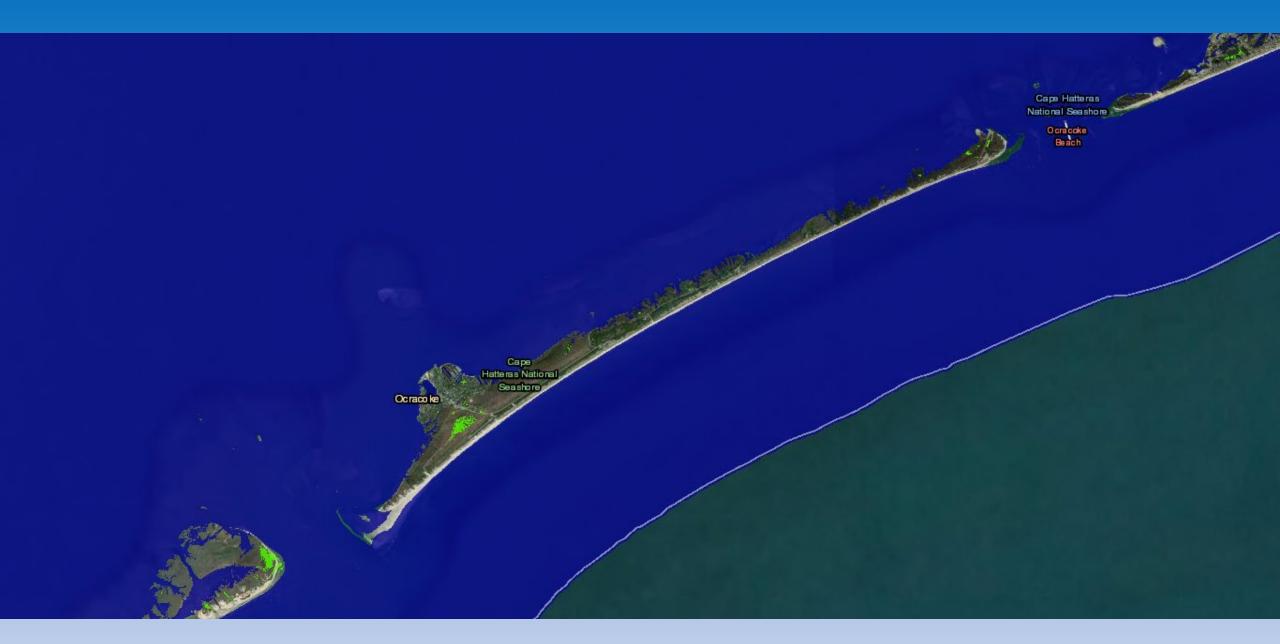


"The relative sea level trend is 5.32 millimeters/year with a 95% confidence interval of +/-1.12 mm/yr based on monthly mean sea level data from 1977 to 2020 which is equivalent to a change of 1.75 feet in 100 years. "

Graphic and text from NOAA found here: https://tidesandcurrents.noaa.gov/sltrends/sltrends\_station.shtml?id=8652587

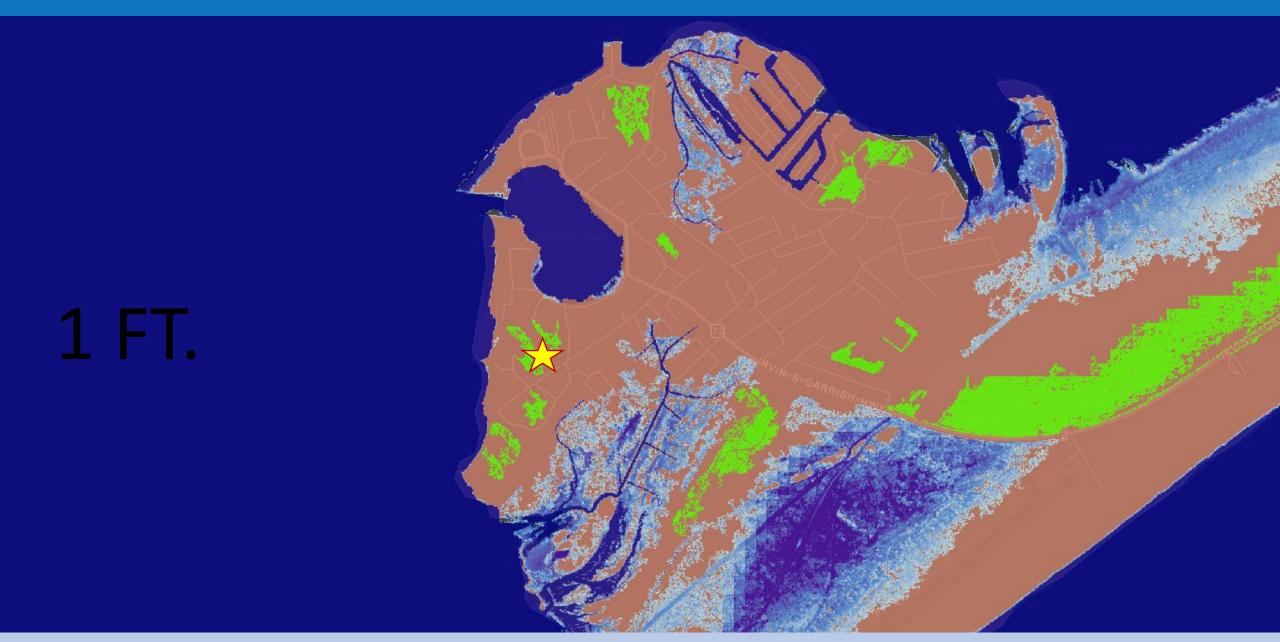


Data from: NOAA Sea Level Riser Viewer – available at: https://coast.noaa.gov/slr/#/layer/slr

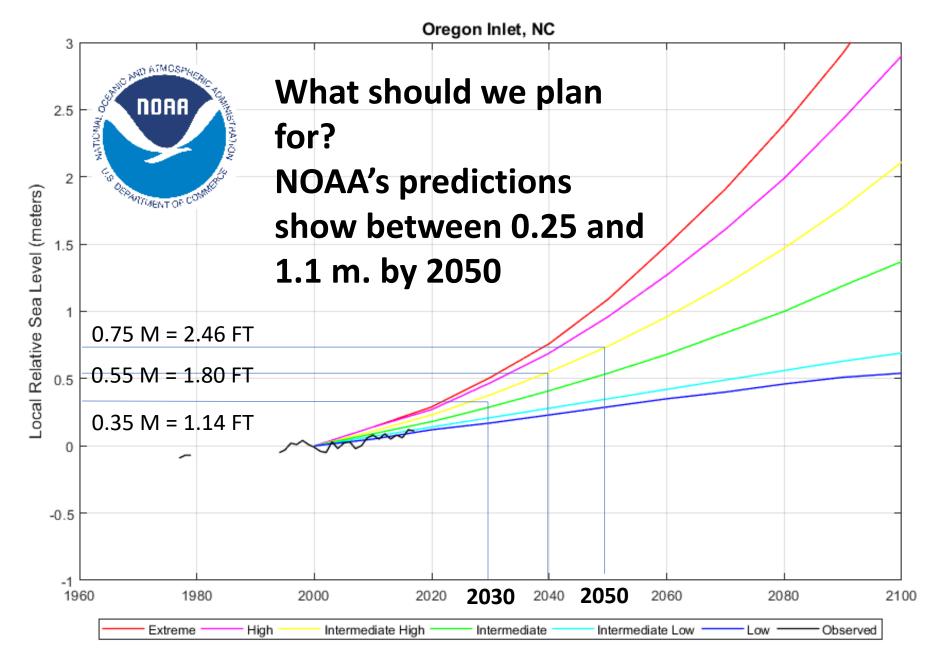


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3 FT.



Data from: https://tidesandcurrents.noaa.gov/sltrends/sltrends\_station.shtml?id=8652587#tab50yr



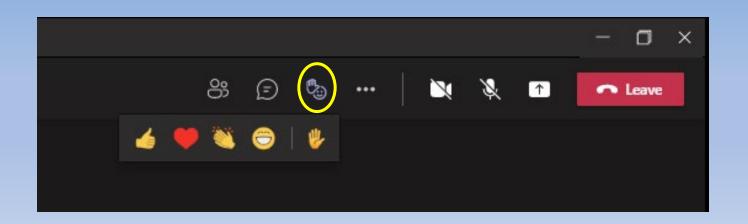


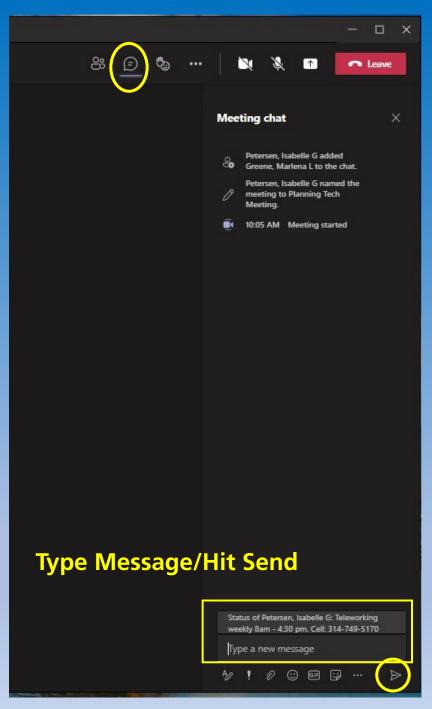
How should we preserve this important light station?

- Repair as is
- Elevate and repair
- Elevate, restore to original keeper's quarters
- Relocate

#### We're Listening

- Please use the "Raise Your Hand" function to help us manage the conversation and to make a verbal comment
- Turn on video cameras if you want.
- Please use the "Chat" function to share something for consideration
- Called in using phone #? -Use\*6 to unmute phone





# Submit comments electronically at: <a href="https://parkplanning.nps.gov/CAHA">https://parkplanning.nps.gov/CAHA</a>

Comments should be clear, concise, and relevant to the issues associated with management of the Ocracoke Light Station.

Commenting is not a form of "voting."

Comments must be received by May 28, 2021.

