



# TROPICAL STORM IAN BRIEFING

6:00 AM ET  
Thursday, September 29,  
2022

**What has changed:** Tropical Storm WARNING has been issued up through Cape Lookout. Wind Advisory for Outer Banks including Ocracoke. Coastal Flood Warnings and Advisories Updated.

**Next Briefing:** Thursday, September 29, by 6 PM EDT

*Disclaimer: The information contained within is time-sensitive. Do not use after 5:00 am EDT Thursday.*



# Situation Overview

Tropical Storm Ian

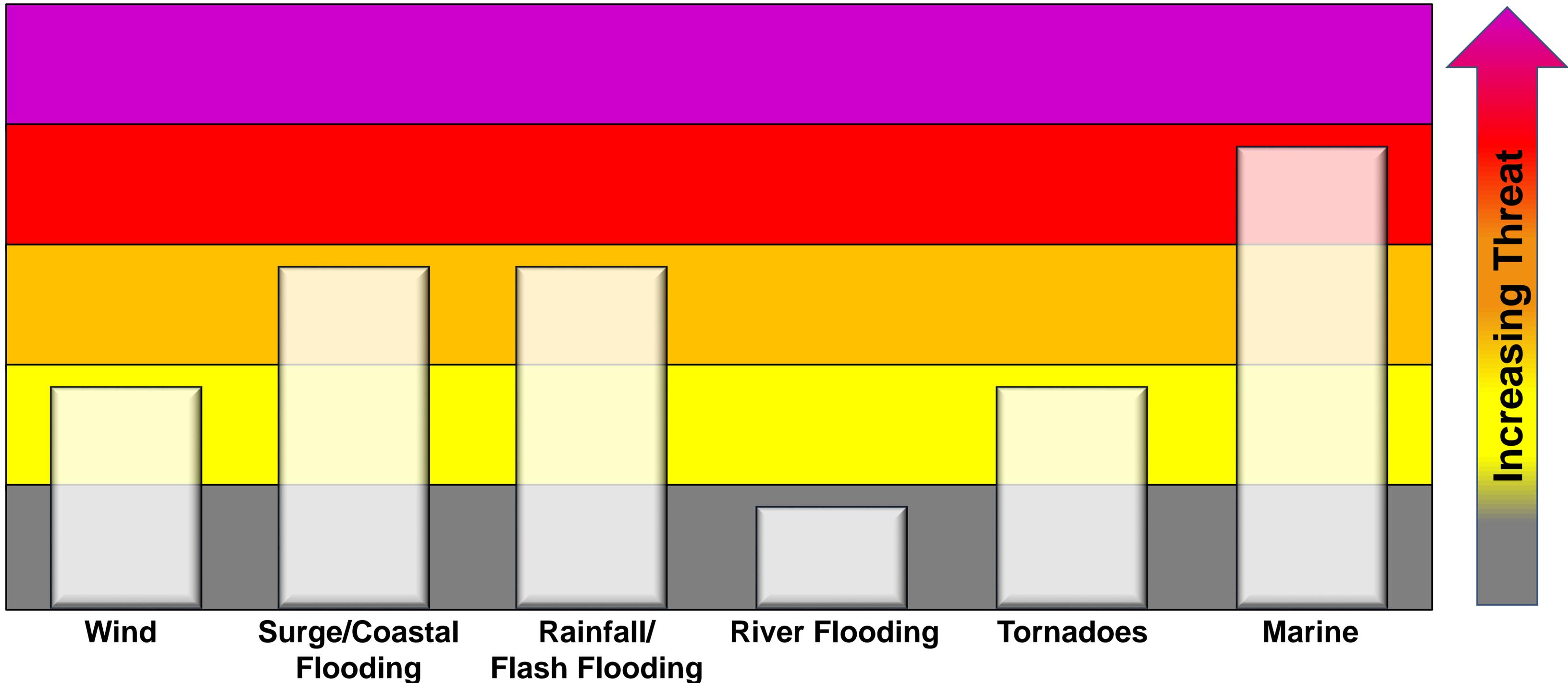
Hazard	Impacts	Location	Timing
 <p>Coastal Flooding/Inundation</p>	<p>Long duration event resulting in 1-3 ft AGL of inundation along low lying areas. 2 to 4 feet possible especially up the Neuse River.</p>	<p>Greatest potential across southern/western Pamlico Sound, Neuse &amp; Bay Rivers, Pamlico River. Other areas include Oceanside OBX, Core Sound, Bogue Sound, Oceanside Crystal Coast</p>	<p>Thursday through Saturday.</p>
 <p>Flooding Rain</p>	<p>Potential for flash flooding due to heavy tropical rains, minor river flooding possible.</p>	<p>All of Eastern NC.</p>	<p>Thursday evening through early Saturday morning.</p>
 <p>Wind</p>	<p>Strong NE winds will persist over an extended period, may cause isolated minor issues.</p>	<p>Coastal NC and adjacent inland counties.</p>	<p>Thursday through Saturday.</p>
 <p>Tornado</p>	<p>A few tornadoes possible.</p>	<p>All of Eastern NC.</p>	<p>Friday through Saturday.</p>
 <p>Marine</p>	<p>Strong winds and large/dangerous seas 6 to 15 feet.</p>	<p>Coastal waters and eastern sounds/tidal rivers</p>	<p>Thursday Morning through Sunday.</p>



# Threat Levels

Tropical Storm Ian

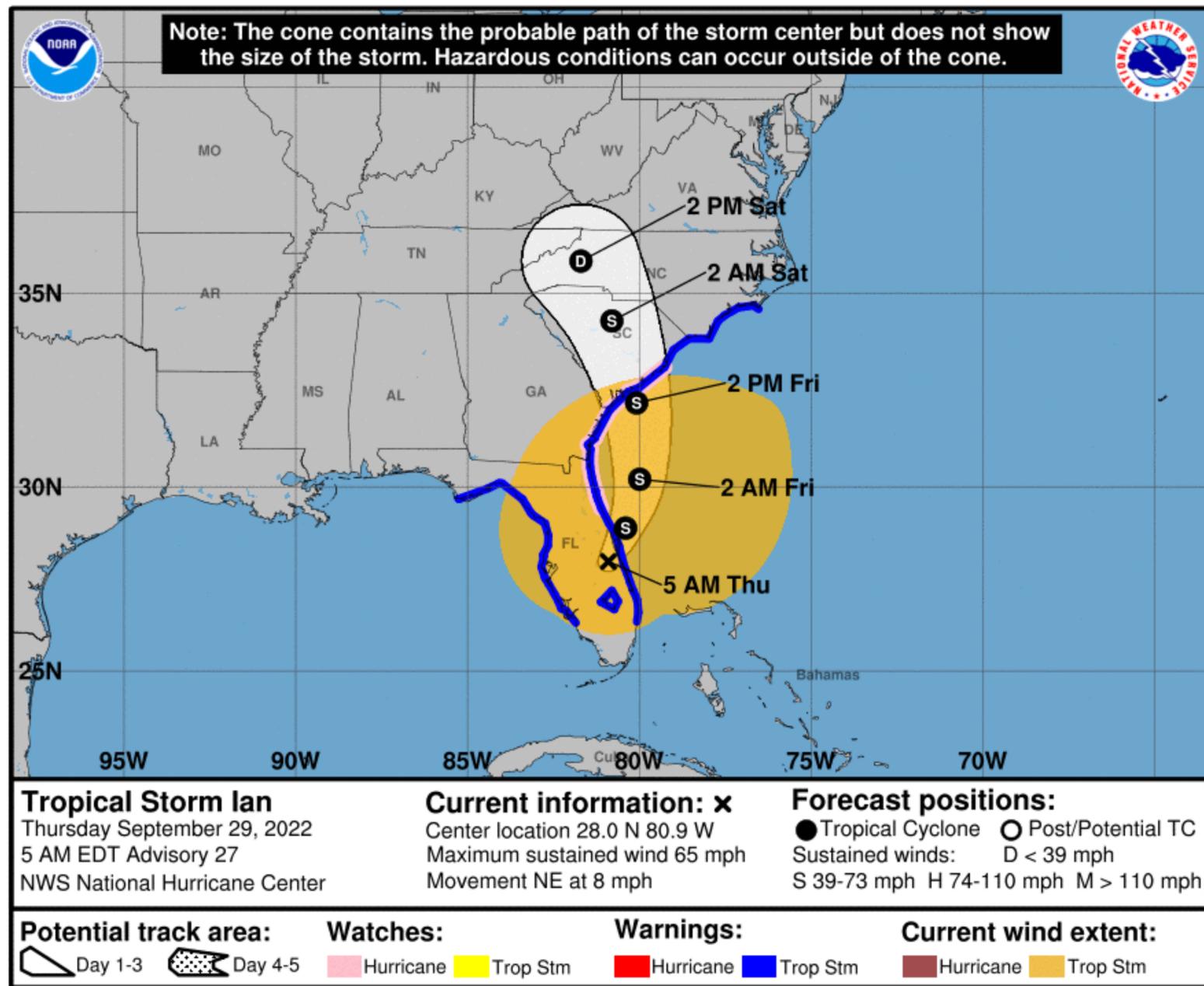
For information on specific hazards in this area, please go to <https://www.weather.gov/srh/tropical?office=mhx>





# Situation Overview

## Tropical Storm Ian



- This will be a prolonged impact of wind, rain, and elevated water levels.
- Impacts well away from the center of Ian will impact our area through the end of the week and into the weekend.
- A stalled front off the NC coast and strong high pressure to the north will help contribute to the impacts across Eastern NC well east of the track of Ian.

**NOTE:** Do not focus on the exact track.  
Impacts can occur well outside the area enclosed by the cone.



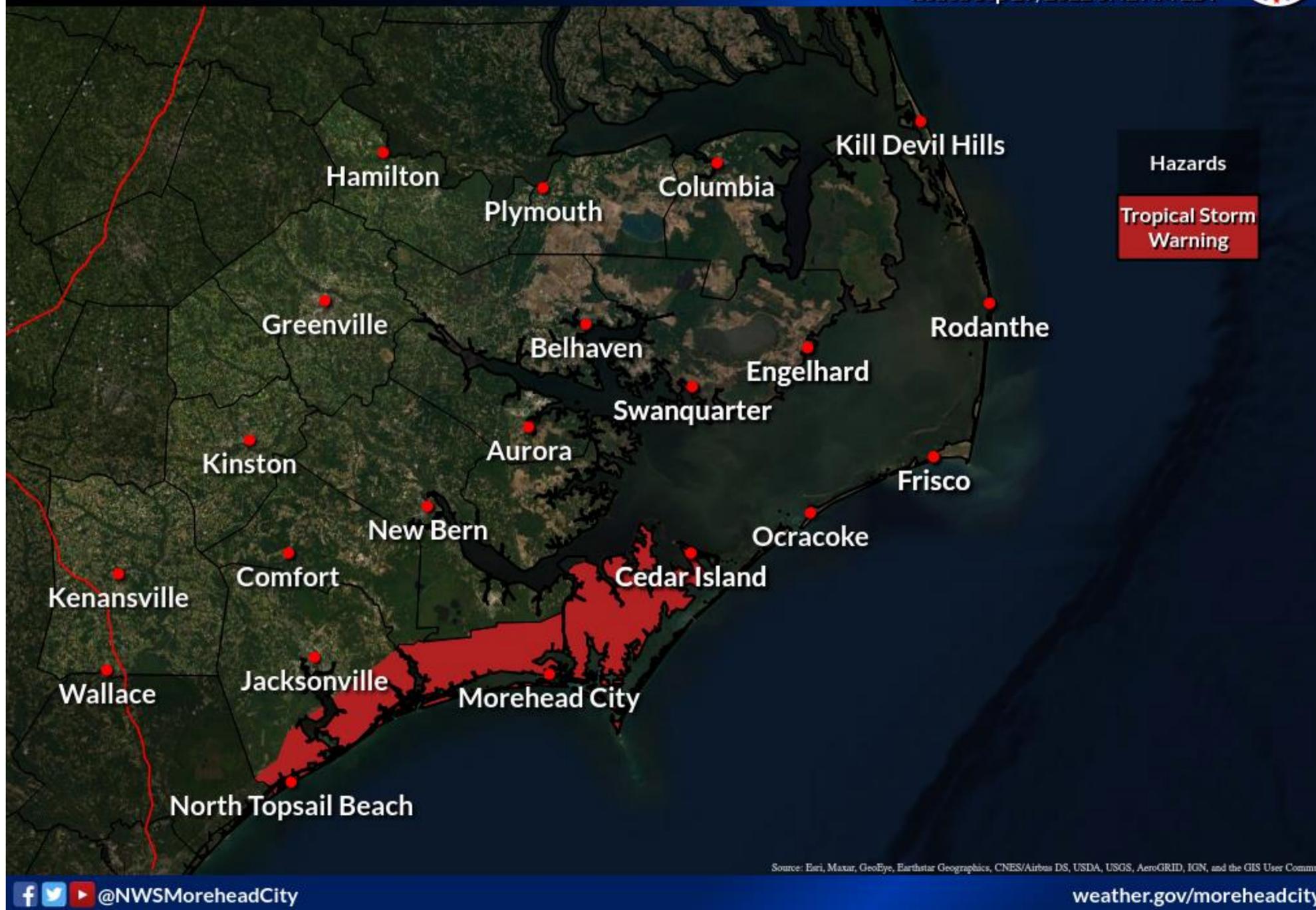
# Tropical Storm Warnings

Tropical Storm Ian

## Tropical Storm WARNING

Weather Forecast Office  
Newport/Morehead City, NC

Issued Sep 29, 2022 5:42 AM EDT



- A Tropical Storm WARNING has been issued for Carteret and coastal Onslow Counties.



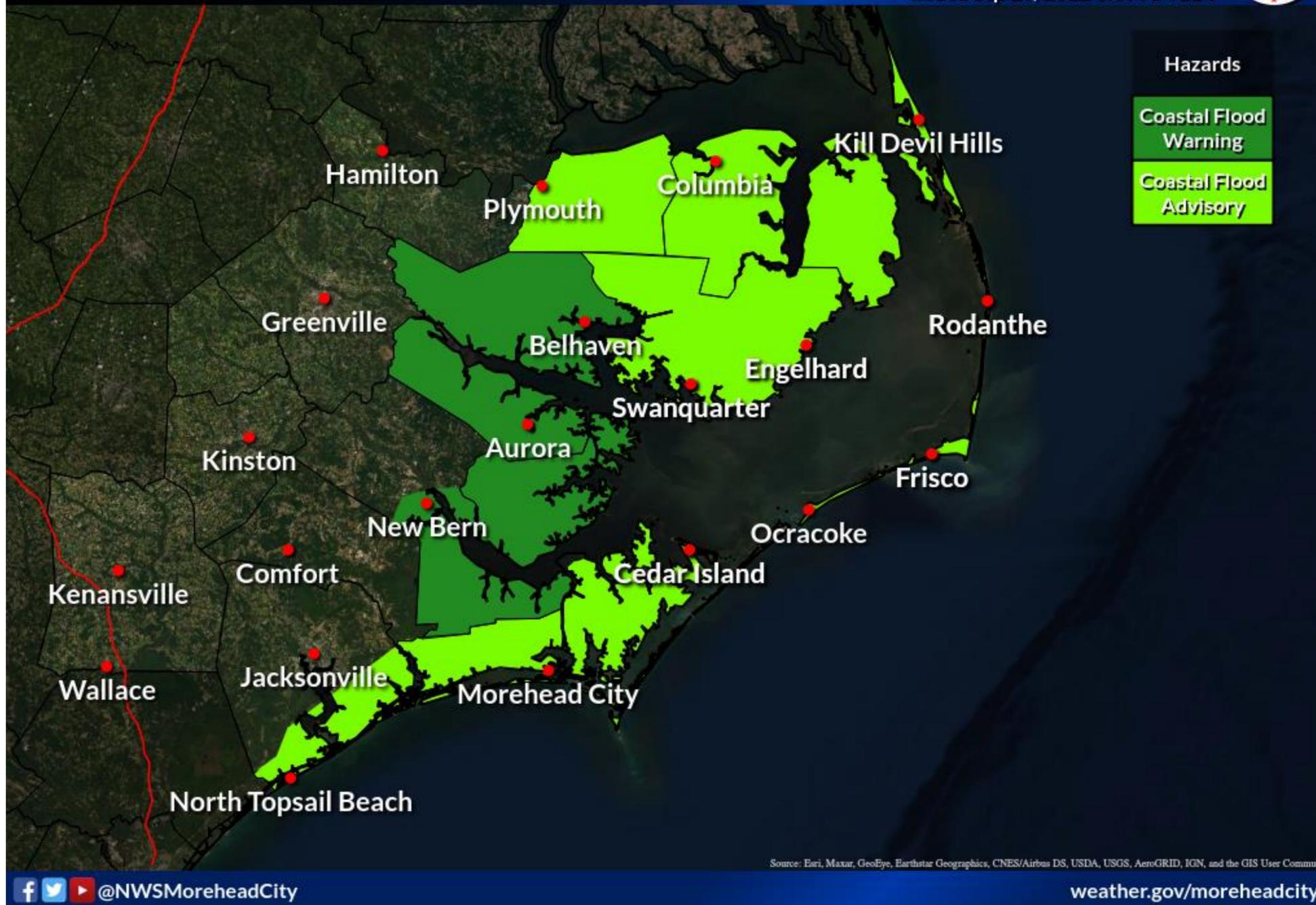
# Coastal Flooding Concerns

Tropical Storm Ian

## Coastal Flood Warnings and Advisories

Weather Forecast Office  
Newport/Morehead City, NC

Issued Sep 29, 2022 6:39 AM EDT



- Coastal Flood Warnings and Advisories now in effect.
- Long duration strong NE winds will produce minor to moderate coastal flooding



# Storm Surge/Coastal Flooding

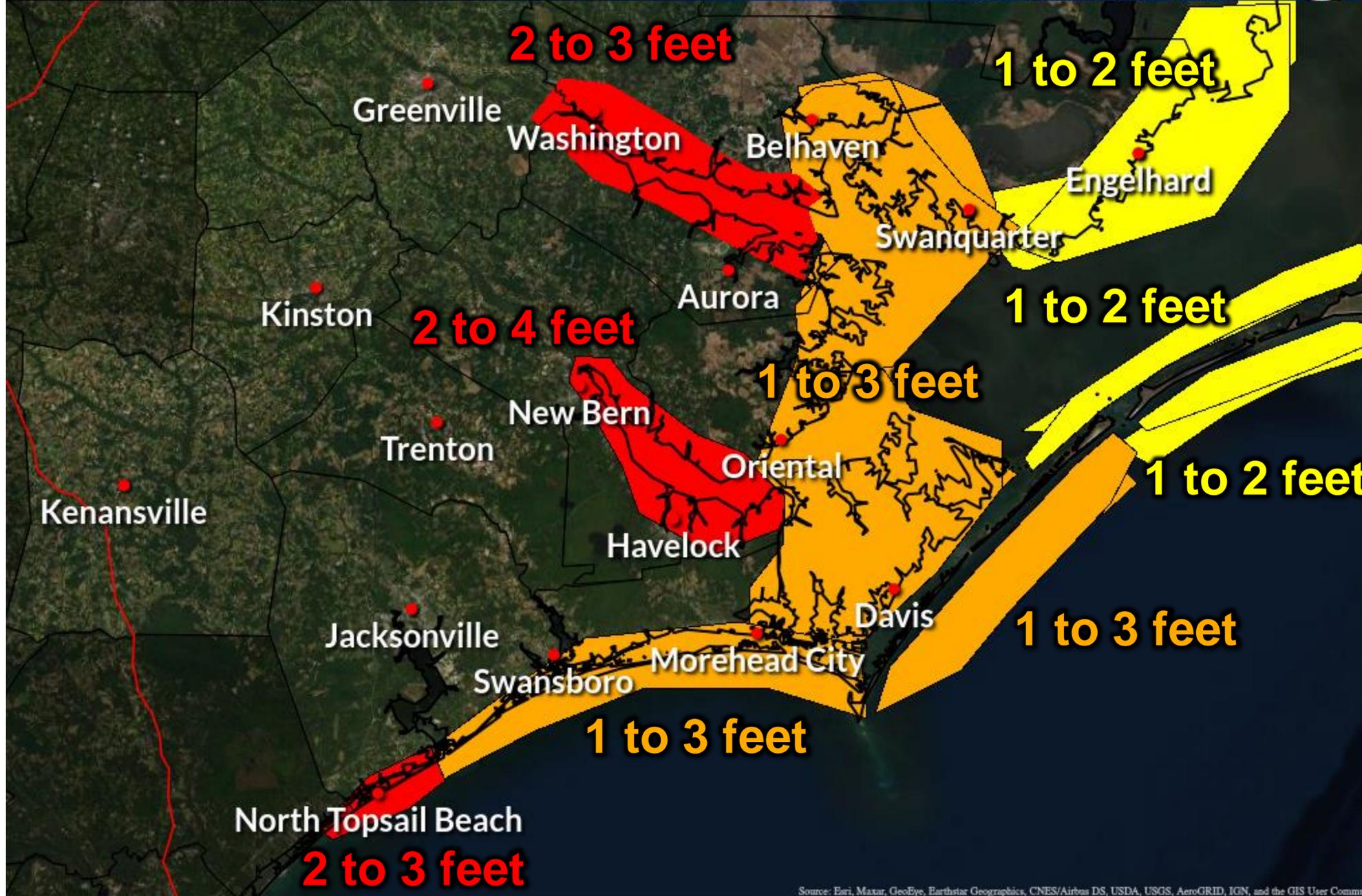
Tropical Storm Ian

## Coastal Flooding/Surge

Minor to Moderate Inundation

Weather Forecast Office  
Newport/Morehead City, NC

Issued Sep 29, 2022 5:39 AM EDT



Source: Eri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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- Long duration strong Northeast to East winds will produce minor to moderate coastal flooding
- **2-4 feet** of inundation possible in low lying areas along the Neuse River
- **1-3 feet** of inundation possible in low-lying areas; southern and western Pamlico Sound, Bay & Pungo Rivers.
- **2 to 3 feet** possible near North Topsail Beach and along the Pamlico River.



# Storm Surge/Coastal Flooding

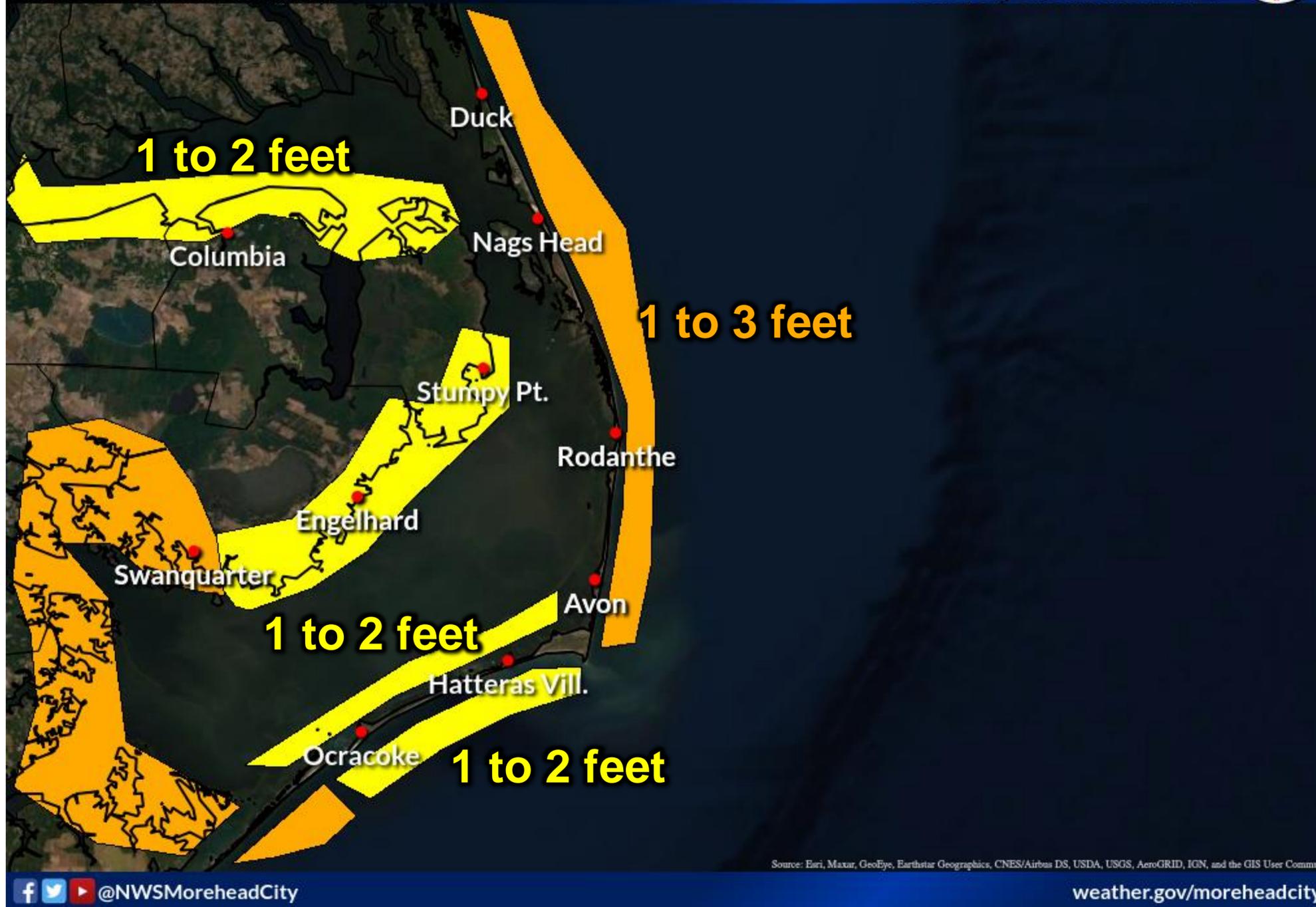
Tropical Storm Ian

## Coastal Flooding/Surge

Minor to Moderate Inundation

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Newport/Morehead City, NC

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- Long duration strong Northeast to East winds will produce minor to moderate coastal flooding
- Elevated water will occur over multiple tide cycles through Saturday
- Ocean overwash possible especially in areas that experienced a loss of dunes in the past few weeks.
- **1-3 feet** of inundation possible in low-lying areas; Oceanside Outer Banks north of Cape Hatteras
- **1 to 2 feet** possible Soundside Ocracoke and Hatteras Island, southern Albemarle Sound.

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Source: Eri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



# Expected Storm Total Rainfall

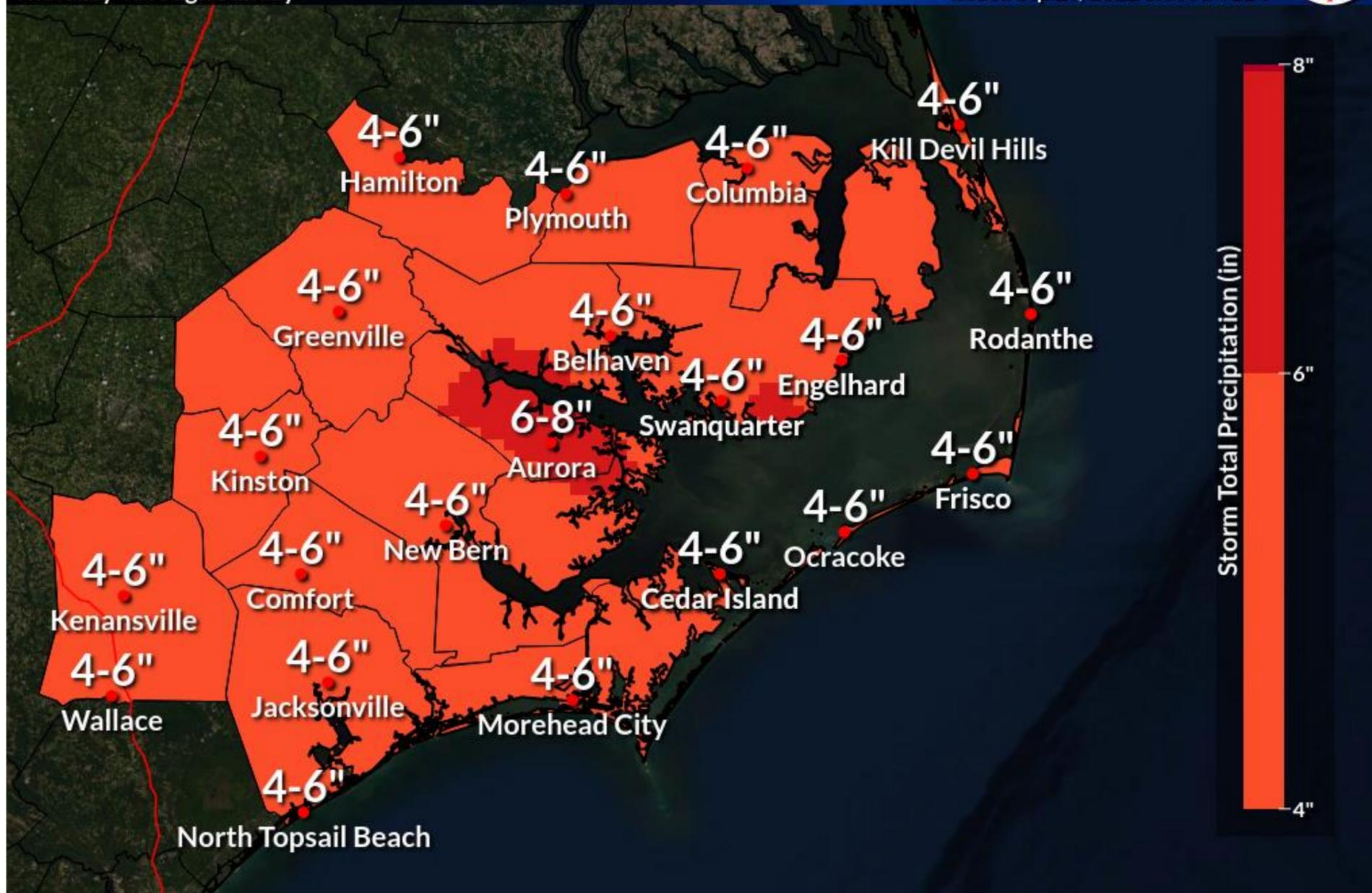
Tropical Storm Ian

## Total Rainfall

Thursday Through Sunday

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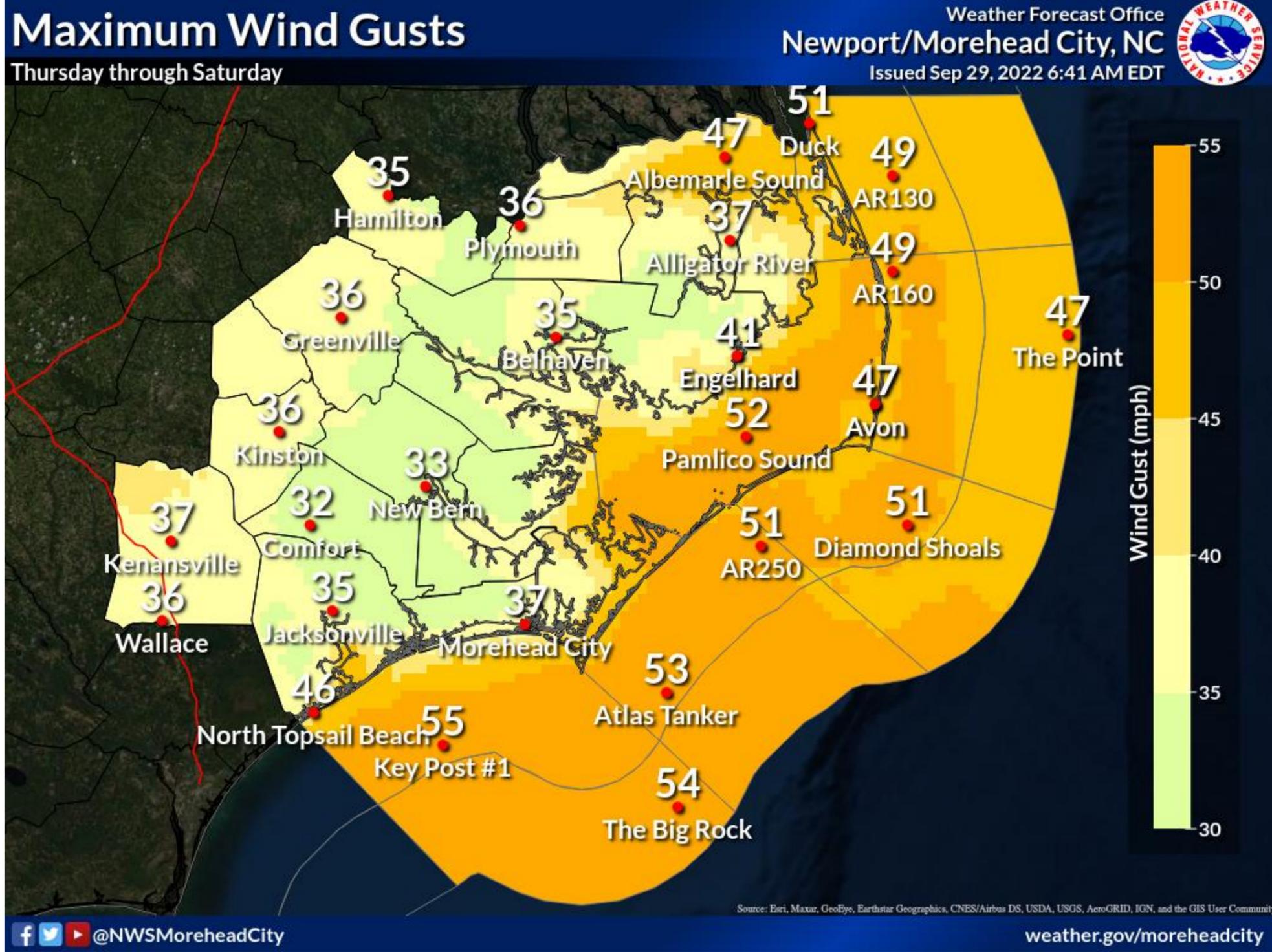
**Note: Locally higher rainfall amounts possible.**

- Localized flash flooding is possible.
- Long duration rainfall event from tonight into early Saturday.
- Flash flooding is possible in the areas of heaviest rainfall.



# Prolonged Period of Northeast Winds Ahead Of Ian

Tropical Storm Ian



A prolonged period of strong northeast winds is expected Thursday through Saturday morning:

- While the entire area will be breezy, strongest winds will occur near the coast.
- Gale Warnings are in effect for all marine zones



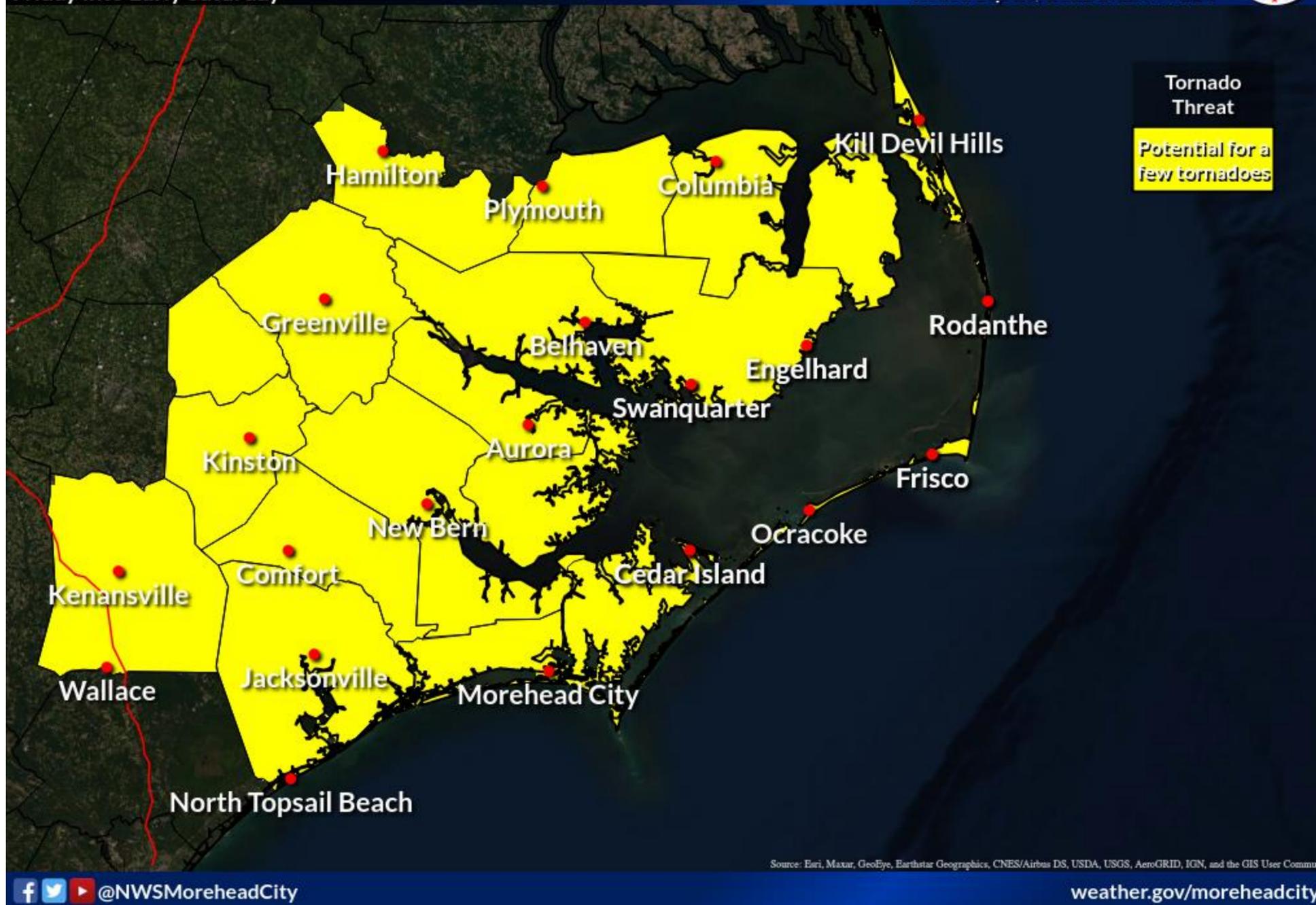
# Potential Tornado Impacts

Tropical Storm Ian

## Tornado Threat

Friday into Early Saturday

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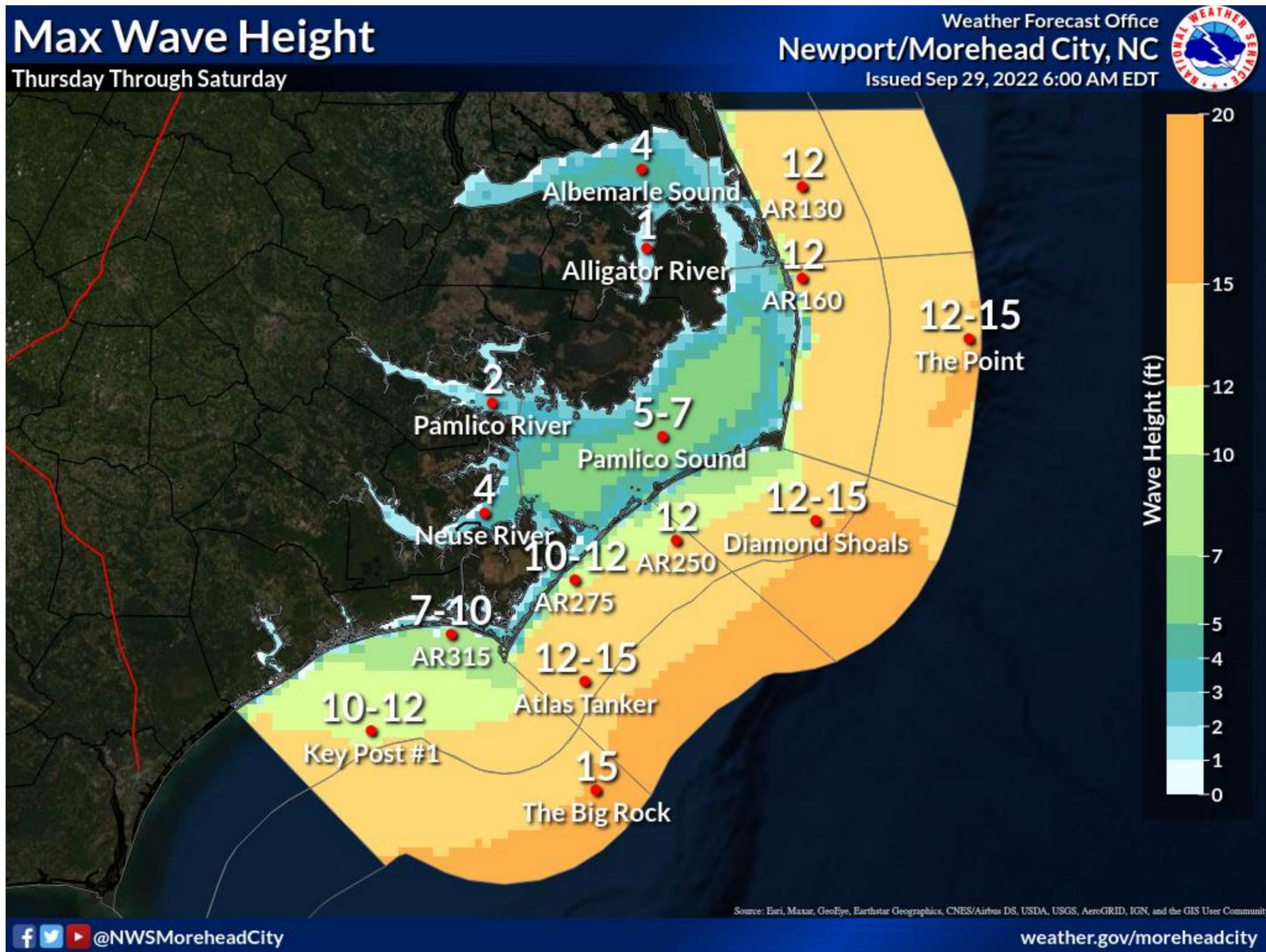


- A few tornadoes are possible Friday and Friday night.
- Tornado threat will likely persist into this weekend



# Dangerous Marine Conditions

Tropical Storm Ian



- Dangerous seas through Saturday.
- Beach erosion is likely.
- Very dangerous beach conditions (higher threat for Rip Currents)



# Key Take-Aways

Tropical Storm Ian

Confidence is HIGH that Ian will bring MODERATE impacts to eastern NC.



Long duration of elevated water levels. Minor to moderate coastal flooding possible through the weekend with peak values of 1-3 ft AGL possible, and up to 2 to 4 up the Neuse River.



Potential for flash flooding due to heavy tropical rains, minor river flooding possible.



Prolonged period of gusty northeast/east winds through Saturday.



A few tornadoes possible Friday through Saturday.



Strong winds and large/dangerous seas 6 to 15 feet through the weekend.



# Next Briefing: Thursday by 6:00 PM ET Method: Email

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For the latest graphics and information go to: [www.hurricanes.gov](http://www.hurricanes.gov) or [weather.gov/mhx/tropical](http://weather.gov/mhx/tropical)