



TROPICAL STORM IAN BRIEFING

Noon ET

Thursday, September 29,
2022

What has changed: Tropical Storm WARNING has been expanded to include the entire area. A Storm Surge WARNING has been issued for the Neuse River. A Storm Surge WATCH is up for the entire coast.

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

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



Situation Overview

Tropical Storm Ian

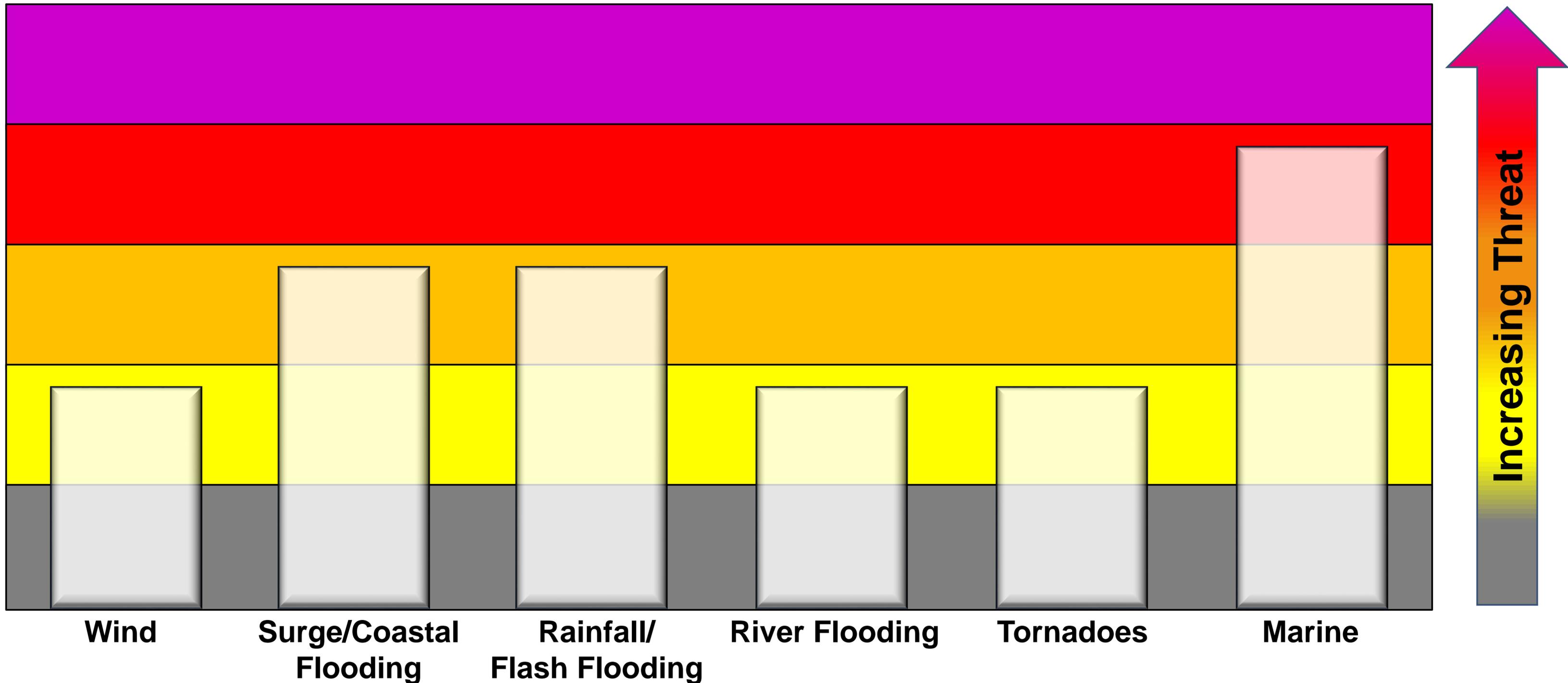
Hazard	Impacts	Location	Timing
 Coastal Flooding/Inundation	<p>Long duration event resulting in 2-4 ft above ground level of inundation along low lying areas. Highest confidence especially along the Neuse River.</p>	<p>Greatest potential across southern/western Pamlico Sound, Neuse & Bay Rivers, Pamlico River. Other areas include Oceanside OBX, Core Sound, Bogue Sound, Oceanside Crystal Coast.</p>	<p>Through Friday night.</p>
 Flooding Rain	<p>Potential for flash flooding due to heavy tropical rains, minor river flooding possible.</p>	<p>All of Eastern NC.</p>	<p>Late Tonight through Friday night.</p>
 Wind	<p>Strong NE winds will persist over an extended period, may cause isolated tree damage and power outages.</p>	<p>All of Eastern NC.</p>	<p>Through Friday night.</p>
 Tornado	<p>A few tornadoes possible.</p>	<p>All of Eastern NC.</p>	<p>Late Tonight through Friday.</p>
 Marine	<p>Strong winds and large/dangerous seas 6 to 15 feet.</p>	<p>Coastal waters and eastern sounds/tidal rivers.</p>	<p>Through Sunday.</p>



Threat Levels

Tropical Storm Ian

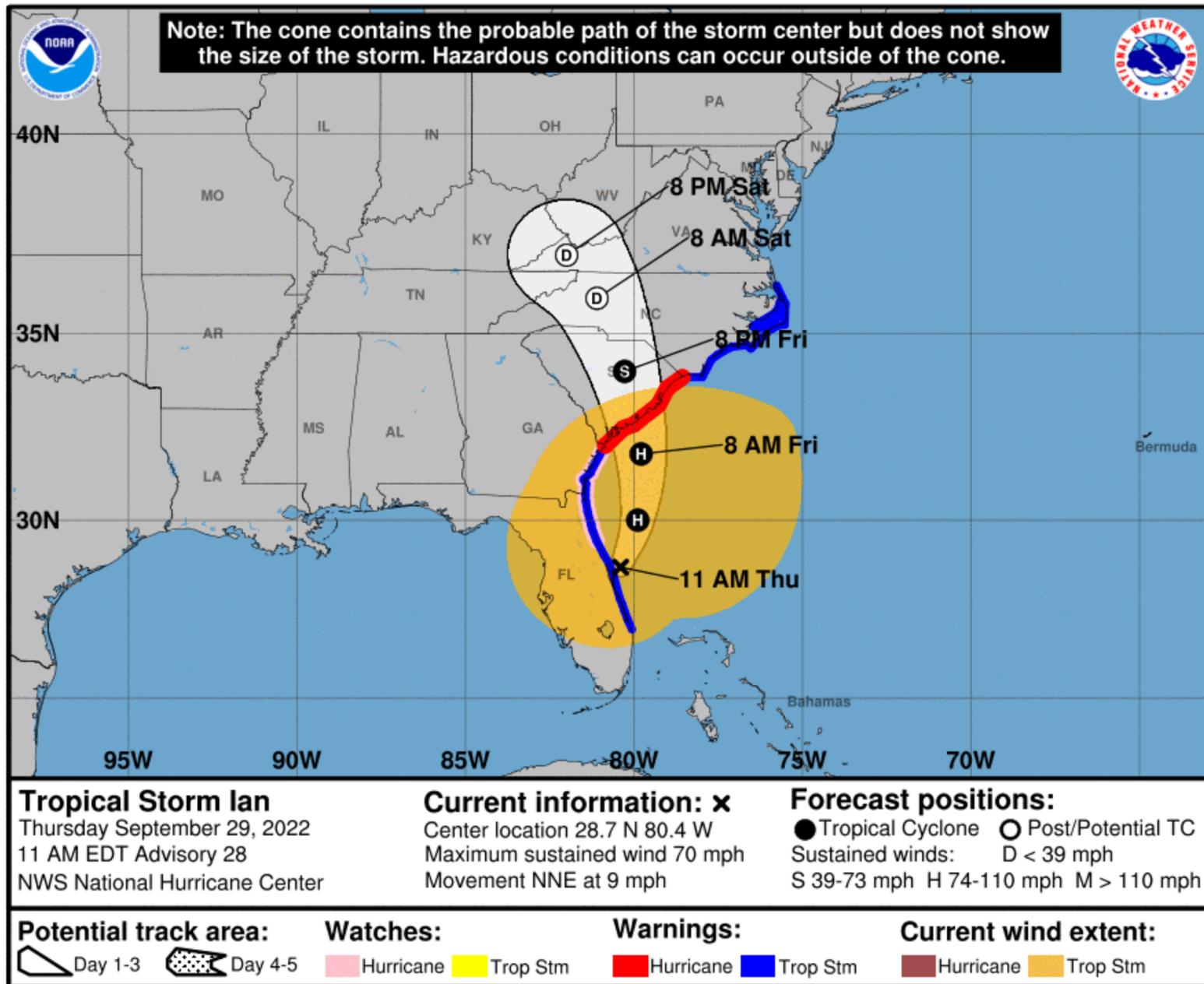
For information on specific hazards in this area, please go to <https://www.weather.gov/srh/tropical?office=mhx>





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 late Friday night.
- 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.



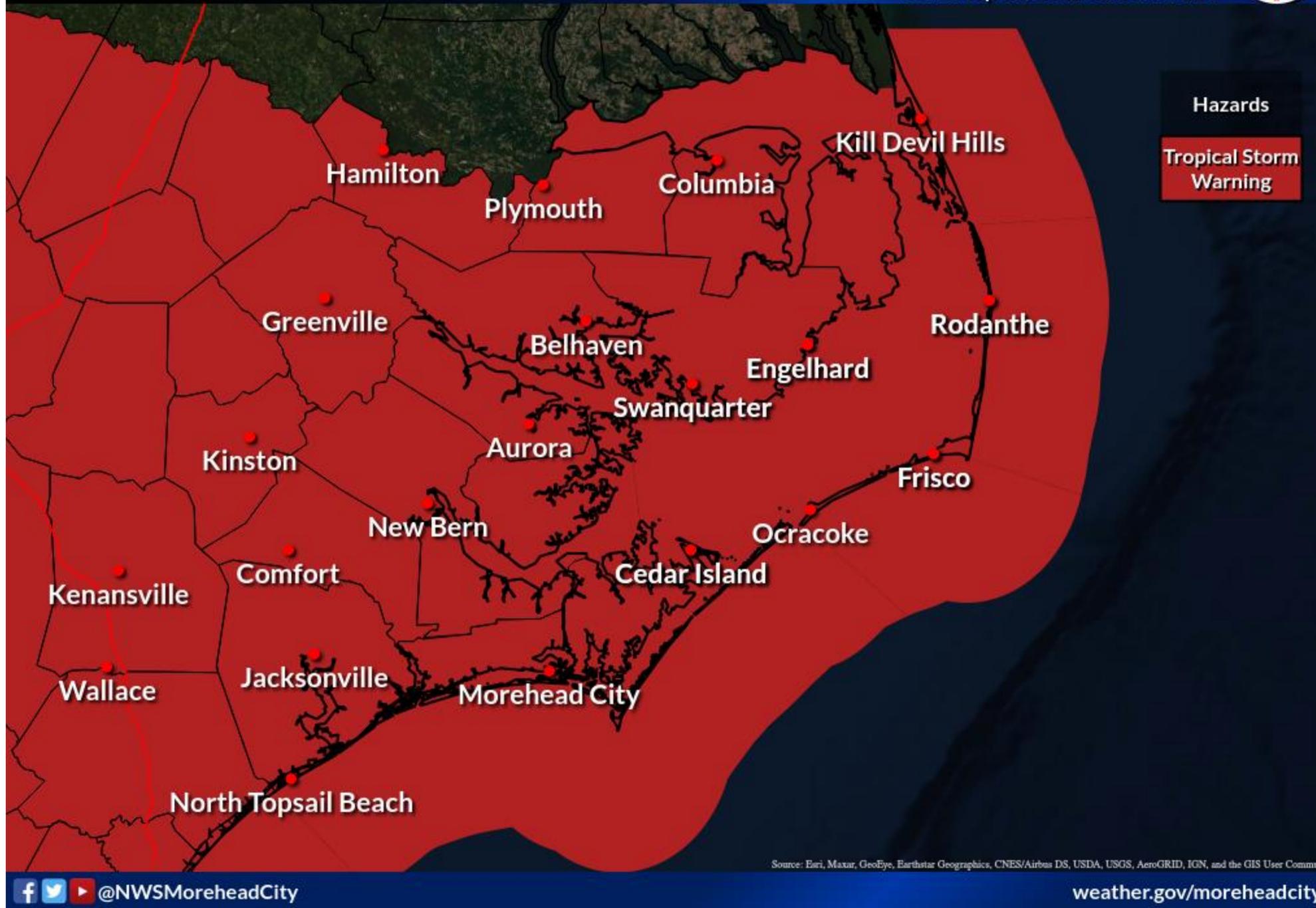
Tropical Storm Warnings

Tropical Storm Ian

Tropical Storm WARNING

Weather Forecast Office
Newport/Morehead City, NC

Issued Sep 29, 2022 12:03 PM EDT

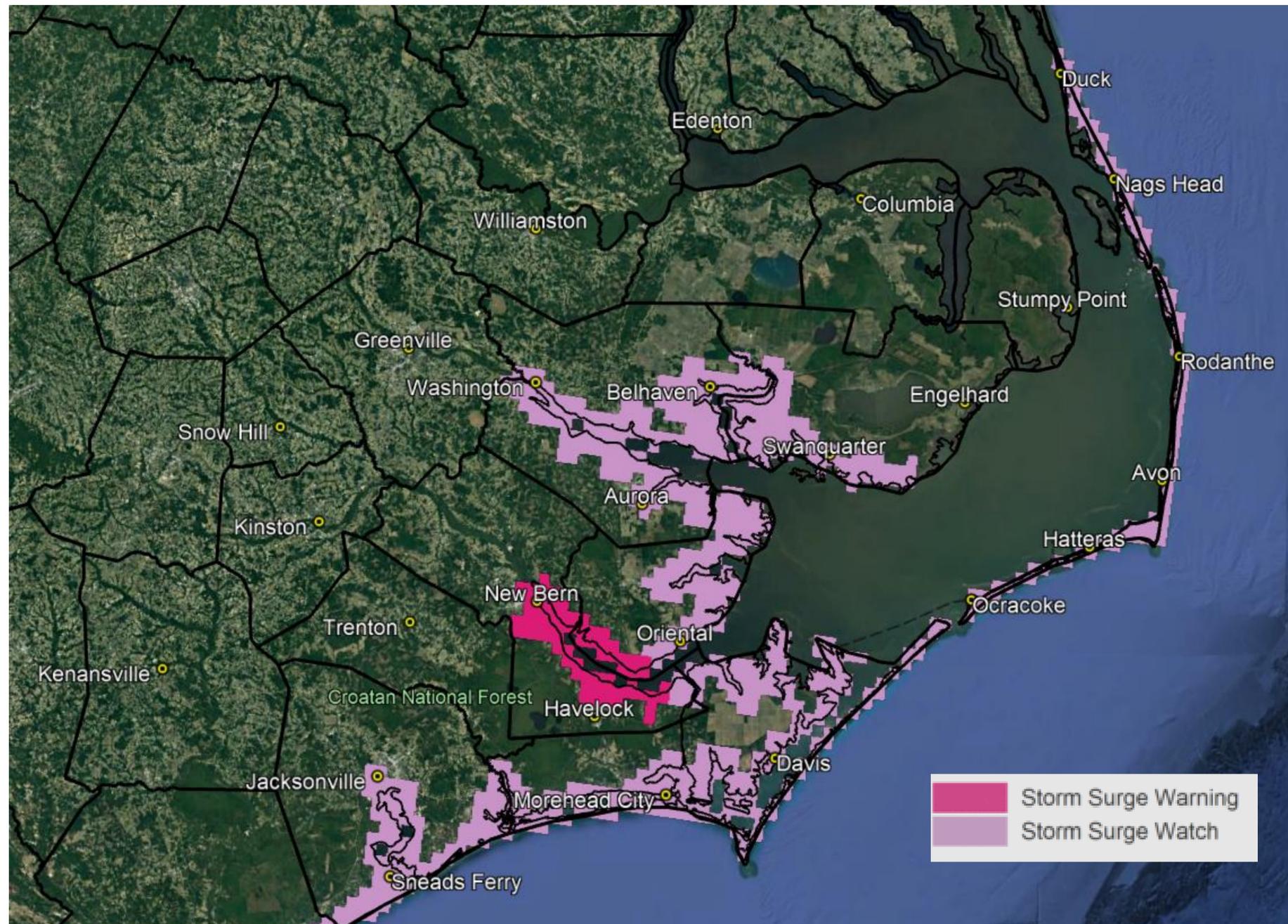


- A Tropical Storm WARNING has been issued for the entire area.



Storm Surge WATCH/Warning

Tropical Storm Ian



- Storm Surge **WARNING** in effect for the Neuse River. Higher confidence of 2 to 4 feet of inundation.
- Storm Surge **WATCH** in effect from Surf City to Duck. Also along the western Pamlico Sound, including the Pamlico, Pungo and Bay Rivers. Lower confidence of 2 to 4 feet of inundation.



Storm Surge/Coastal Flooding

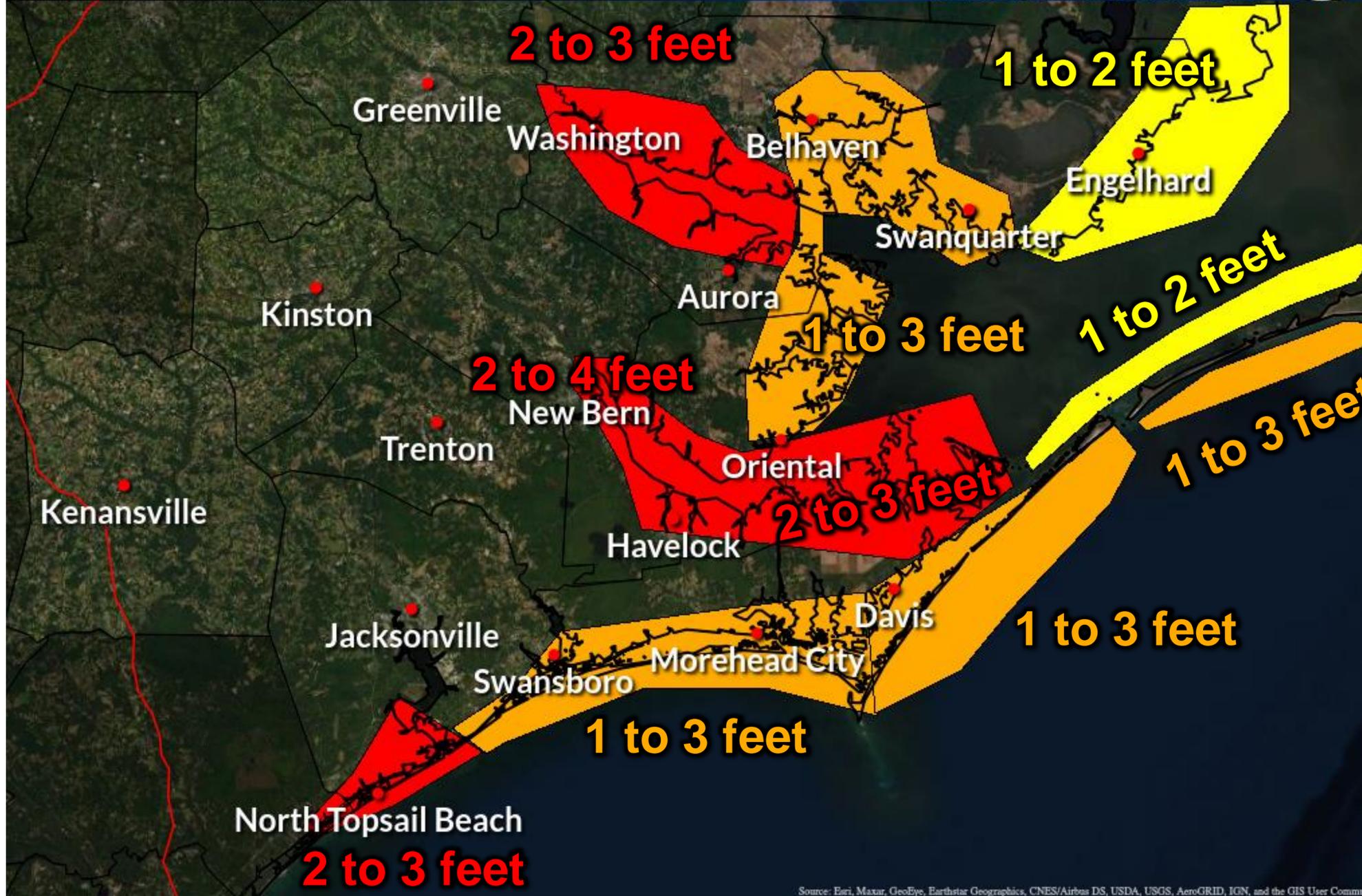
Tropical Storm Ian

Coastal Flooding/Surge

Minor to Moderate Inundation

Weather Forecast Office
Newport/Morehead City, NC

Issued Sep 29, 2022 12:34 PM EDT



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

@NWSMoreheadCity

weather.gov/moreheadcity

- Minor to moderate coastal flooding
- **2 to 4 feet** of inundation possible in low lying areas along the Neuse River.
- **2 to 3 feet** possible near North Topsail Beach, Downeast Carteret and along the Pamlico River.
- **1 to 3 feet** of inundation possible in low-lying areas; southern and western Pamlico Sound, Bay & Pungo Rivers, and Ocracoke Island.



Storm Surge/Coastal Flooding

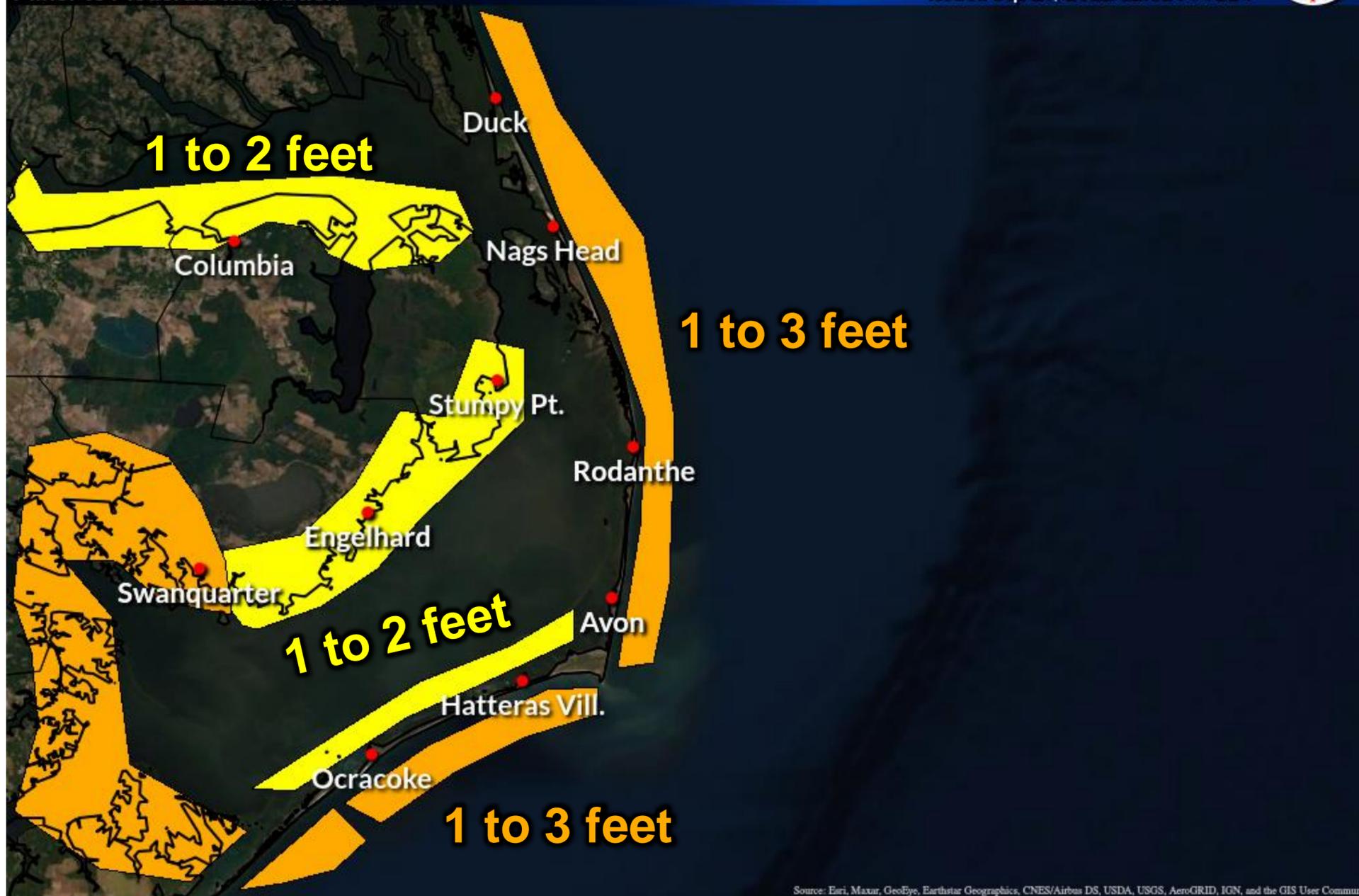
Tropical Storm Ian

Coastal Flooding/Surge

Minor to Moderate Inundation

Weather Forecast Office
Newport/Morehead City, NC

Issued Sep 29, 2022 12:32 PM EDT



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

@NWSMoreheadCity

weather.gov/moreheadcity

- Long duration of 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 over the past few weeks.

- **1 to 3 feet** of inundation possible in low-lying areas; Oceanside Outer Banks (including Hatteras and Ocracoke Island).

- **1 to 2 feet** possible Soundside Ocracoke and Hatteras Island, southern Albemarle Sound.



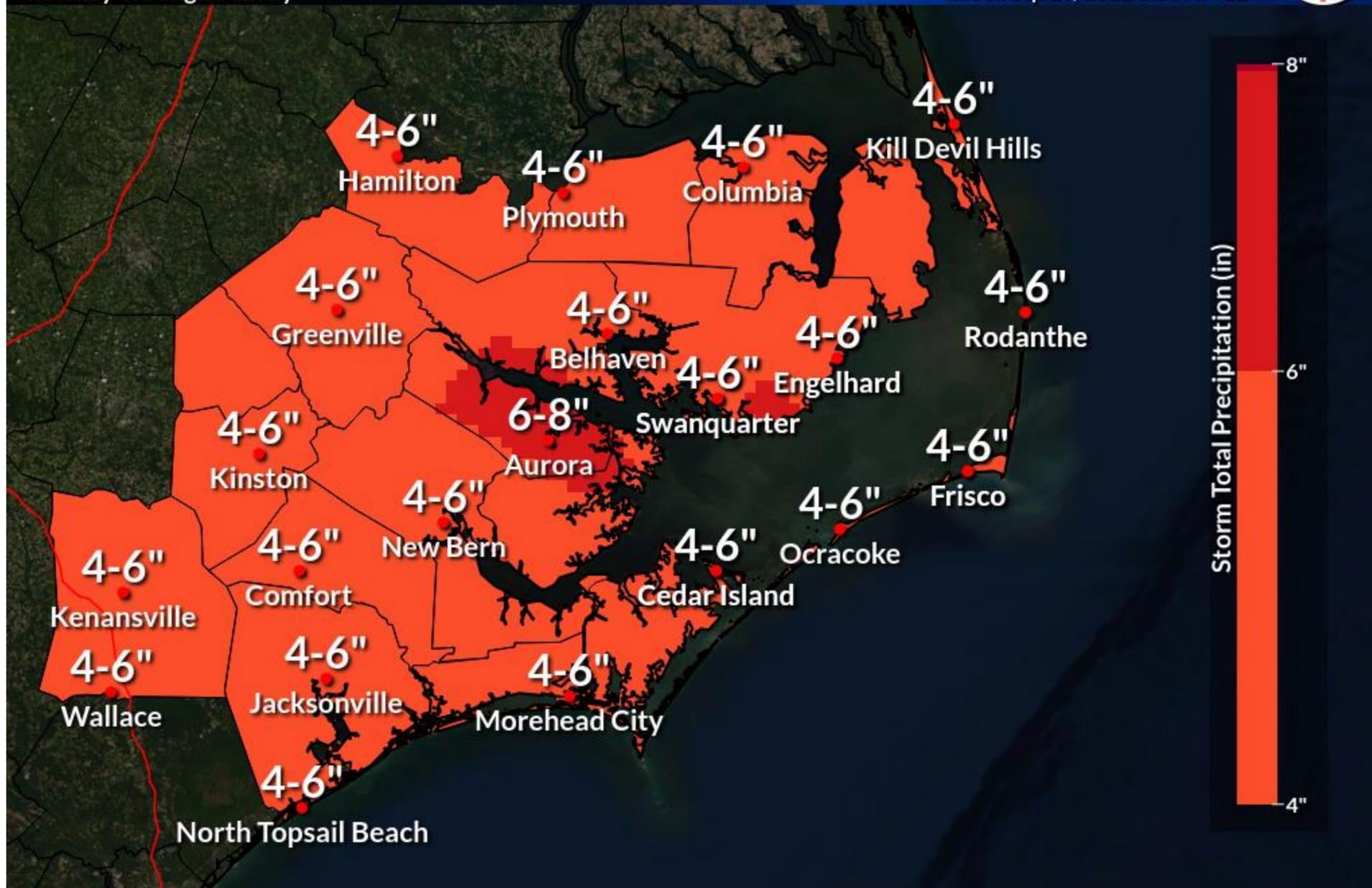
Expected Storm Total Rainfall

Tropical Storm Ian

Total Rainfall

Thursday Through Sunday

Weather Forecast Office
Newport/Morehead City, NC
Issued Sep 29, 2022 5:00 AM EDT



Note: Locally higher rainfall amounts possible.

- Localized flash flooding is possible.
- Heaviest rain falls tonight into Friday evening.
- Flash flooding is possible in the areas of heaviest rainfall.



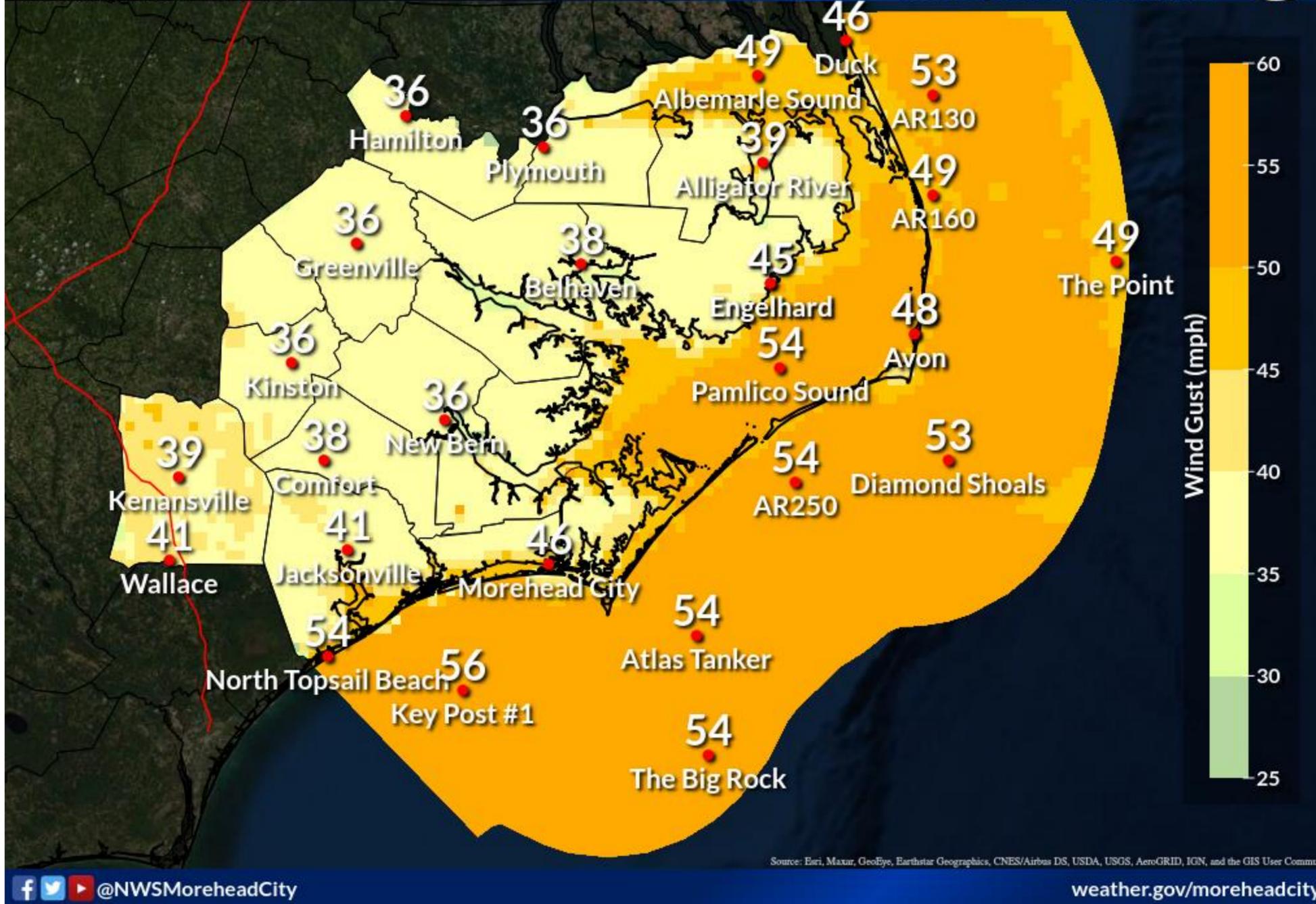
Prolonged Period of Northeast Winds Ahead Of Ian

Tropical Storm Ian

Maximum Wind Gusts

Thursday through Saturday

Weather Forecast Office
Newport/Morehead City, NC
Issued Sep 29, 2022 11:27 AM EDT



A prolonged period of strong northeast winds is expected through Friday night:

- While the entire area will be breezy, strongest winds will occur near the coast.
- If the track with Ian shifts a bit farther east, stronger winds are possible from Onslow through Duplin and Lenoir Counties.



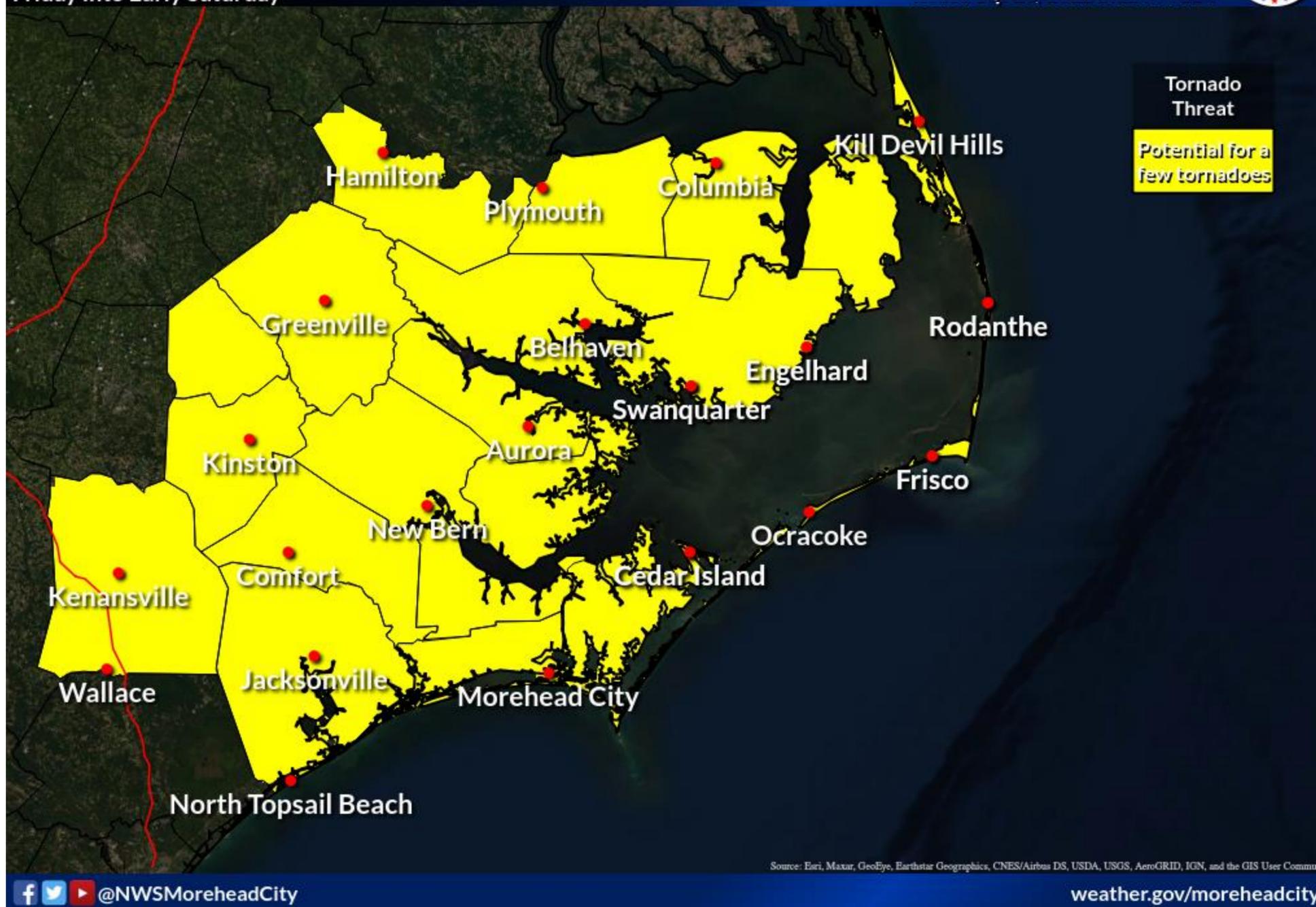
Potential Tornado Impacts

Tropical Storm Ian

Tornado Threat

Friday into Early Saturday

Weather Forecast Office
Newport/Morehead City, NC
Issued Sep 29, 2022 5:39 AM EDT

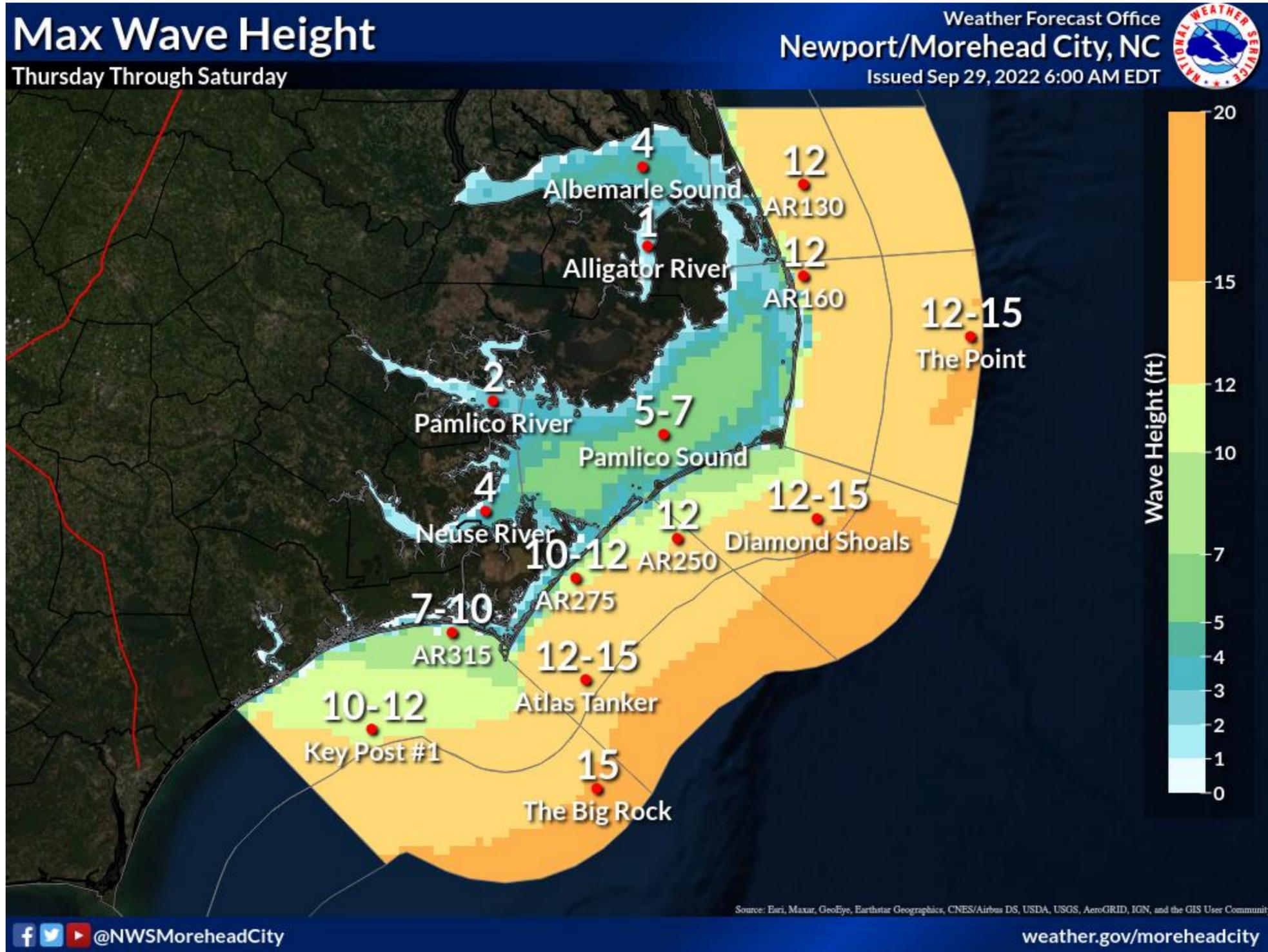


- A few tornadoes are possible tonight into Friday evening.
- Have multiple ways to get warnings and be able to seek shelter quickly.



Dangerous Marine Conditions

Tropical Storm Ian



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



Key Take-Aways

Tropical Storm Ian

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



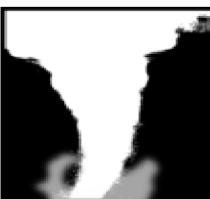
Long duration of elevated water levels. Minor to moderate coastal flooding possible through the Friday night with peak values of 2-4 ft above ground level. Highest confidence of 2 to 4 feet is along the Neuse River.



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



Prolonged period of gusty northeast/east winds through Friday night.



A few tornadoes possible tonight through Friday.



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



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

 **Web:** <http://weather.gov/moreheadcity>

 **Phone:** (252) 223-5737 x6

 **E-mail:** wxobs.mhx@noaa.gov

 **Facebook:** NWSMoreheadCity

 **Twitter:** NWSMoreheadCity

 **YouTube:** NWSMoreheadCity

For the latest graphics and information go to: www.hurricanes.gov or weather.gov/mhx/tropical