



Potential Tropical Cyclone Sixteen Briefing

11:30 AM

Thursday, Sep 21, 2023

What has changed:
First full briefing, Tropical Storm Warnings, Storm Surge
Watches issued.



Situation Overview

Potential Tropical Cyclone Sixteen



Potential Tropical Cyclone Advisories

Issued **before** a tropical depression or tropical storm forms.

Provide the NWS with the ability to **issue a watch with a full 48 hours of lead time** or **a warning with a full 36 hours of lead time** prior to possible tropical storm, hurricane, or life-threatening storm surge conditions on land.

Contain all of the **standard NHC advisory text and graphical products** and will be issued at the standard advisory times.



Situation Overview

Potential Tropical Cyclone Sixteen



What it tells you.

The probable forecast track of the **center of the storm** up to 5 days out from its current position.

About **two-thirds of the time**, the center of the storm will remain in the cone.

What it *doesn't* tell you.

The size of the storm.

The impacts both within the cone and outside the cone. **Impacts often occur well outside of the cone.**




hurricanes.gov





Situation Overview



Potential Tropical Cyclone Sixteen

Hazard	Impacts	Location	Timing
 Storm Surge & Inundation	Moderate impacts: Up to 2-4 ft of inundation could result in flooding of some very low-lying roadways and properties.	All of coastal eastern NC, with greatest confidence around the lower Pamlico and Neuse Rivers.	Later Friday through Saturday night.
 Wind	Moderate impacts: Tropical storm force winds could result in scattered tree damage and power outages.	Generally along and east of US Hwy 17, with the strongest winds extending from the Cape Lookout area across the OBX.	Friday through Saturday.
 Flooding Rain	Moderate impacts. Widespread 2-4 inches, with localized amounts around 6 inches, will could produce localized flash flooding, especially for urban and poor drainage areas.	Flash flooding threat extends across all of eastern NC, with greatest rainfall amounts expected along and east of US Hwy 17.	Friday through Saturday.



Situation Overview

Potential Tropical Cyclone Sixteen

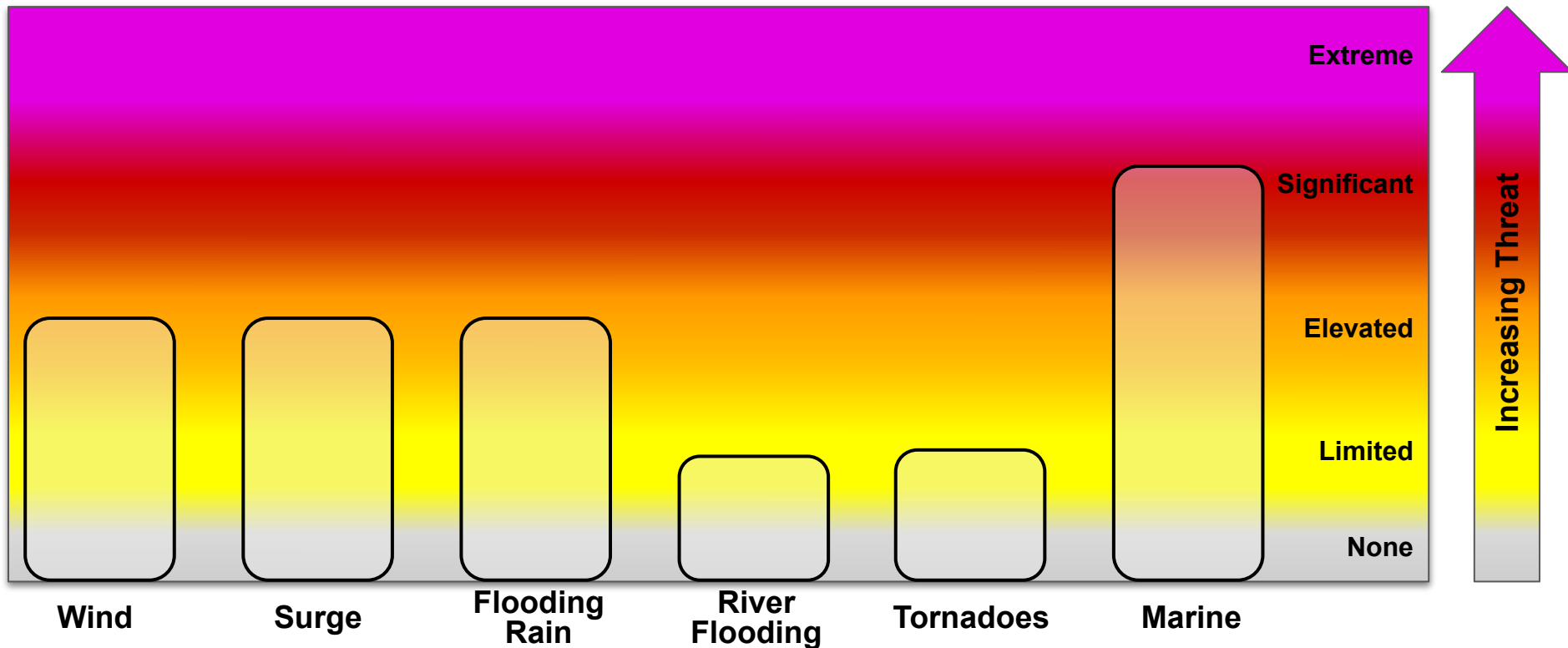
Hazard	Impacts	Location	Timing
 <p>Tornado</p>	<p>Limited impacts: A few tornadoes are possible. A few places may experience tornado damage, along with power and communications disruptions.</p>	Coastal North Carolina	Friday through Saturday.
 <p>Marine</p>	<p>Significant impacts: Large dangerous seas, tropical storm force winds will produce life threatening conditions to mariners.</p>	All of NC coastal waters and sounds.	Friday morning through Saturday night.



Threat Levels

Potential Tropical Cyclone Sixteen

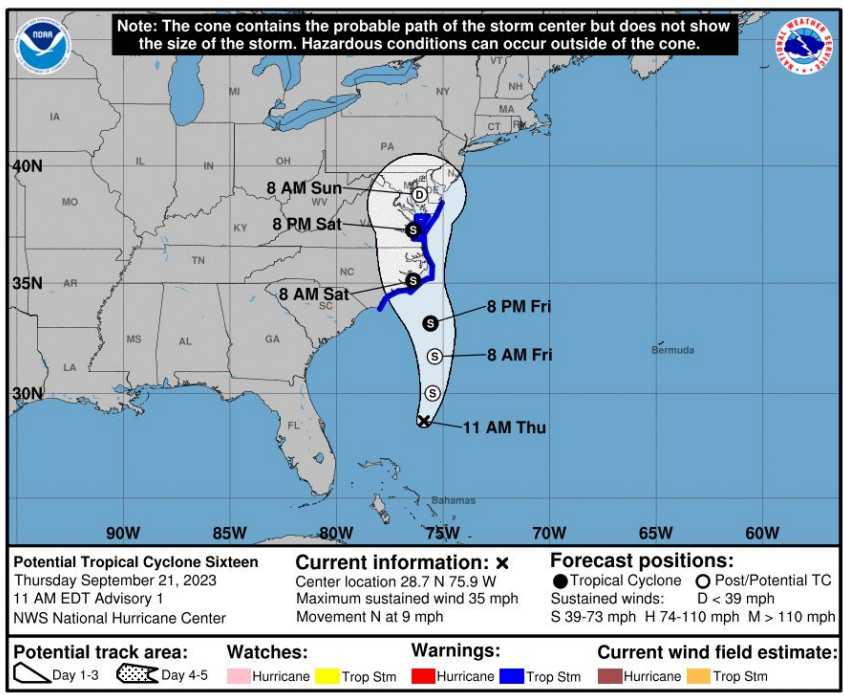
For information on specific hazards in this area, please go to: <https://www.weather.gov/srh/tropical?office=mhx>





Situation Overview

Potential Tropical Cyclone Sixteen



- Low pressure off the Southeast coast could become tropical or subtropical later today.
- Regardless of tropical development, the low will move toward the Carolinas, bringing impacts to eastern NC beginning Friday.
- This is a good reminder that impacts can occur well away from the center of the storm or forecast “cone”.

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



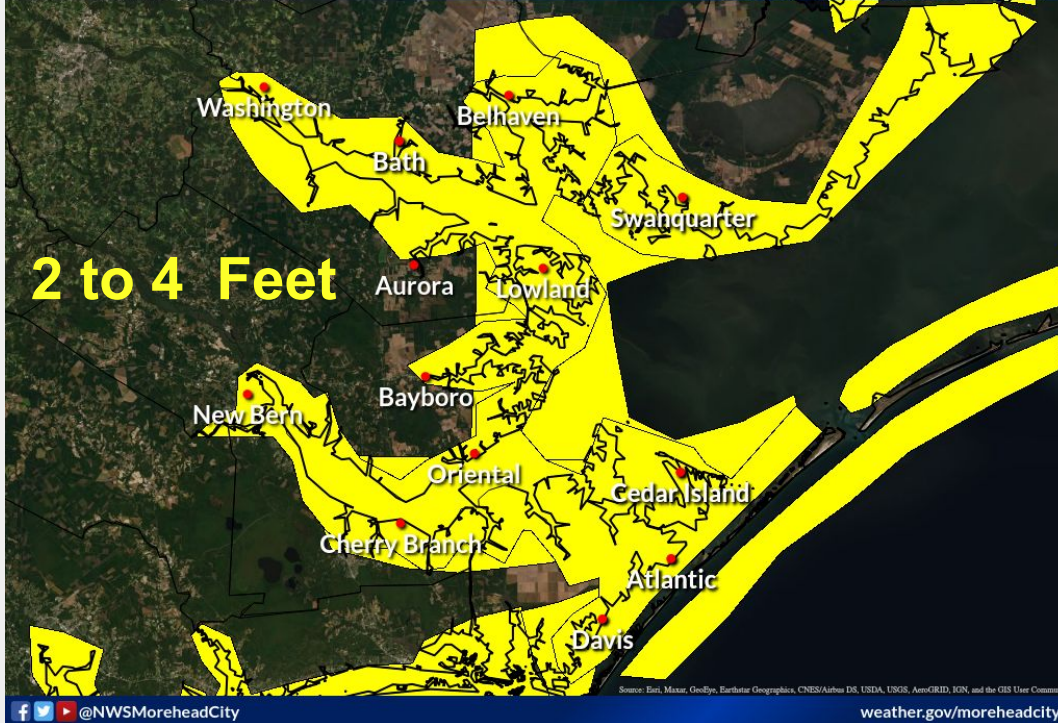
Potential Storm Surge Impacts

Potential Tropical Cyclone Sixteen

Potential Storm Surge

Potential Tropical Cyclone Sixteen

Weather Forecast Office
Newport/Morehead City, NC
Issued Aug 30, 2023 4:55 AM EDT



- Moderate impact

(Yellow shaded areas):

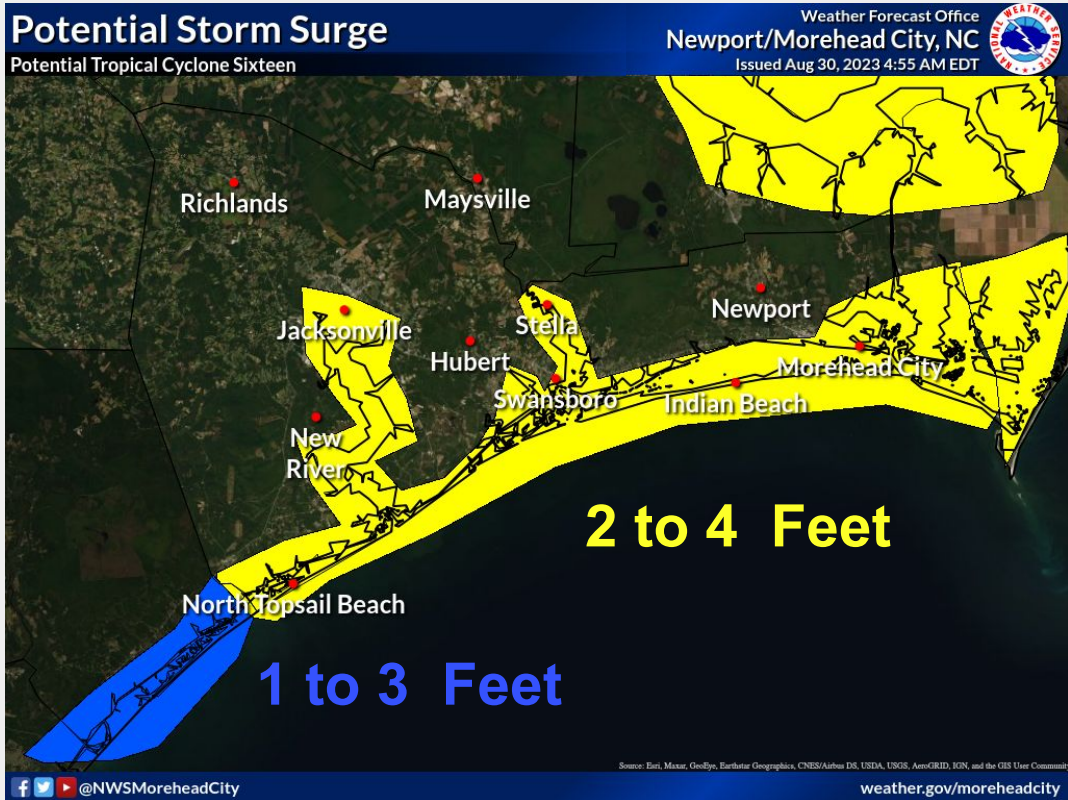
Areas of inundation with moderate damage to marinas and docks.

Sections of near-shore escape routes and secondary routes become washed out, especially in vulnerable low spots.



Potential Storm Surge Impacts

Potential Tropical Cyclone Sixteen

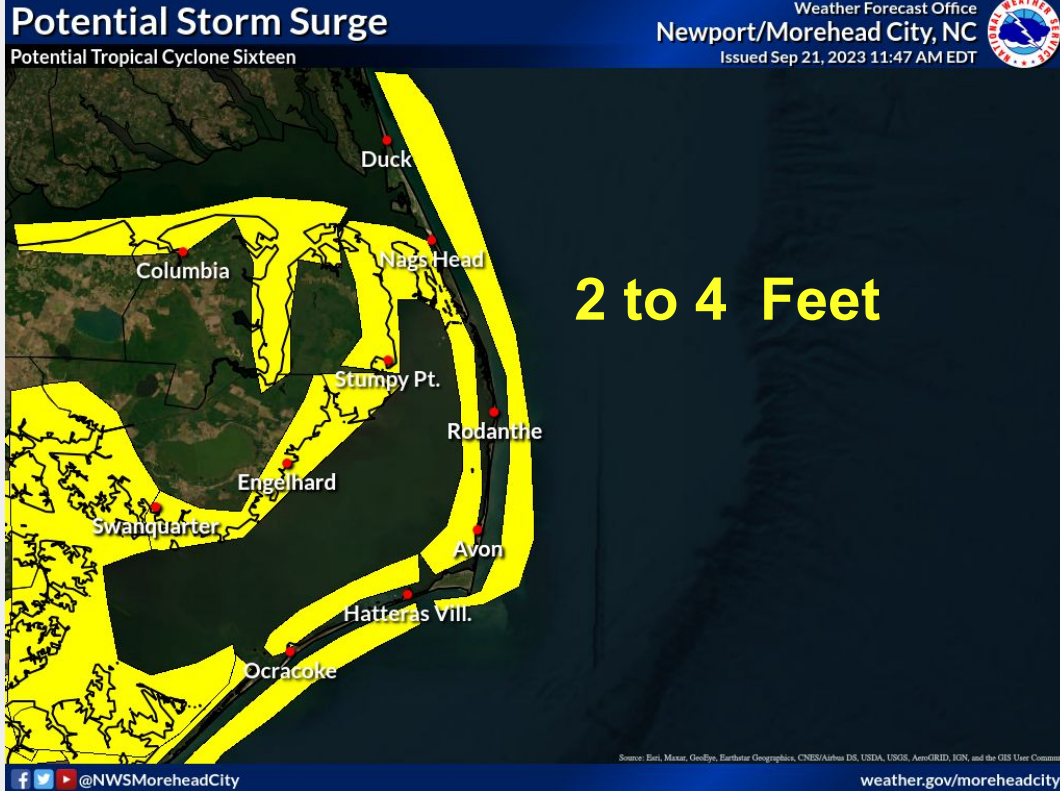


- Moderate impact
(Yellow shaded areas):
Areas of inundation with moderate damage to marinas, docks.
- Elevated impact
(Blue Shaded Areas):
Localized inundation, mainly along immediate shorelines and in low-lying spots.



Potential Storm Surge Impacts

Potential Tropical Cyclone Sixteen



- Moderate impact
(Yellow Shaded Areas):
Areas of inundation with storm surge flooding accentuated by waves.
Moderate beach erosion and localized ocean over wash.



Wind Threat / Potential Impact

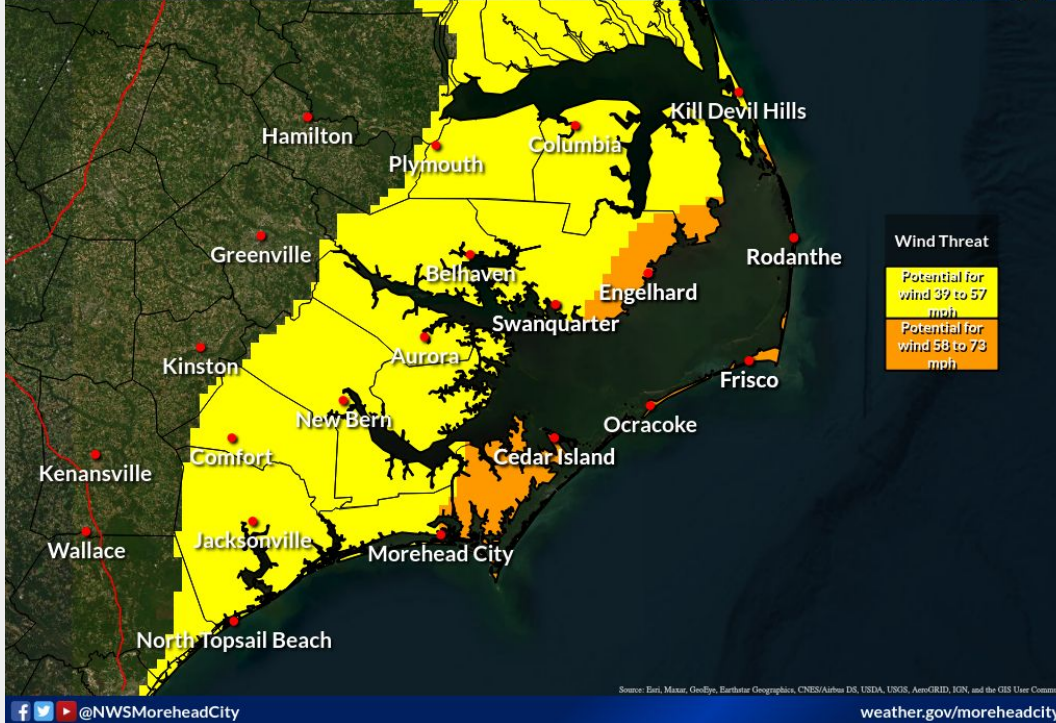
Potential Tropical Cyclone Sixteen

Wind Threat

Potential Tropical Cyclone 16

Weather Forecast Office
Newport/Morehead City, NC

Issued Sep 21, 2023 11:19 AM EDT



There is a potential for:

- Scattered power and communication outages.
- Highest potential will be in the **Orange Shaded** area, closer to the coast.



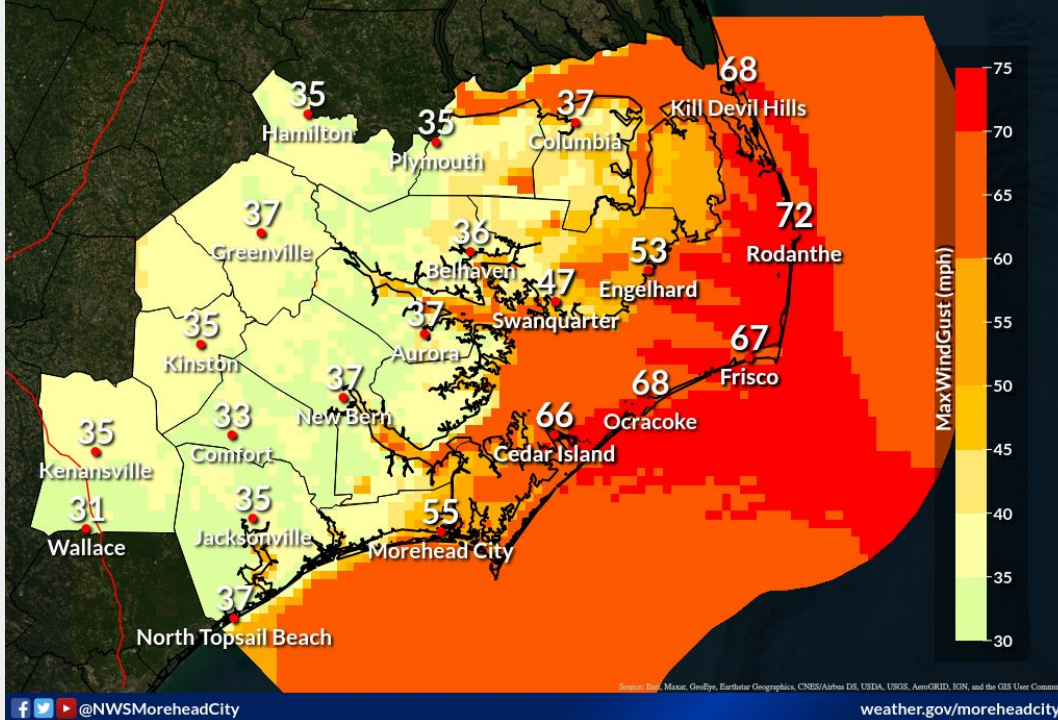
Maximum Wind Gusts

Potential Tropical Cyclone Sixteen

Maximum Wind Gusts

Potential Tropical Cyclone Sixteen

Weather Forecast Office
Newport/Morehead City, NC
Issued Sep 21, 2023 12:27 PM EDT



- Highest wind speeds expected near the coast.
- Tropical storm force winds are most likely by late Friday morning.
- Strongest winds are expected Friday into Saturday.

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weather.gov/moreheadcity



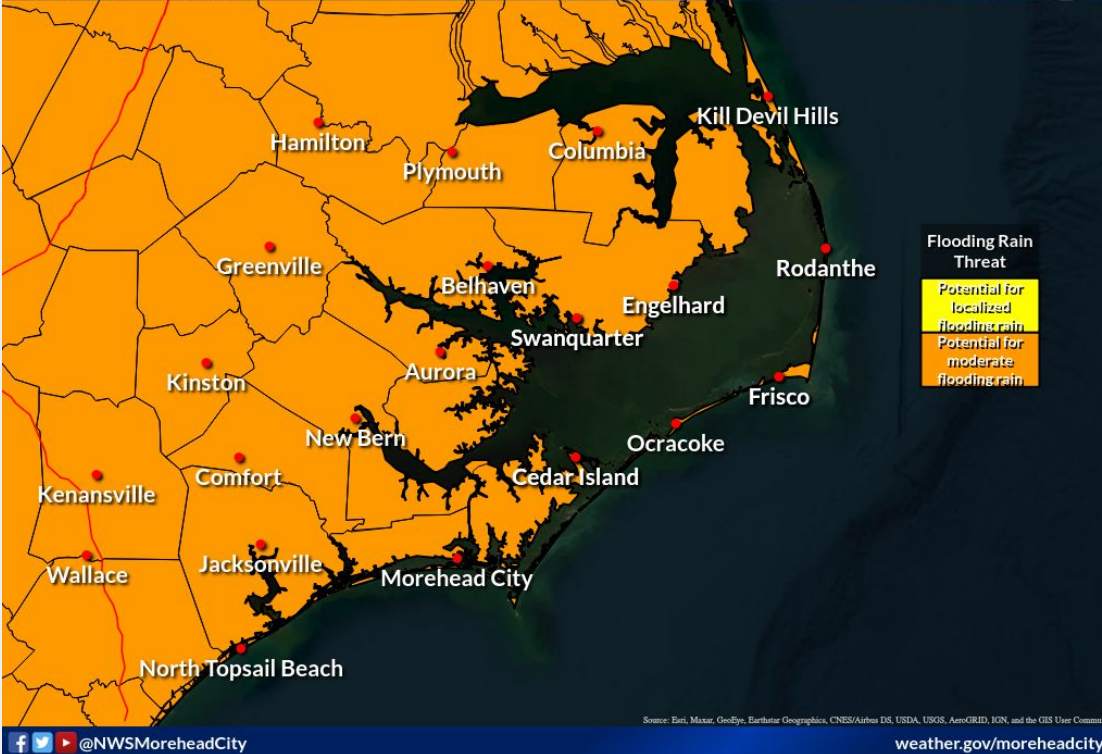
Inland Flooding Impacts

Potential Tropical Cyclone Sixteen

Flooding Rain Threat

Potential Tropical Cyclone 16

Weather Forecast Office
Newport/Morehead City, NC
Issued Sep 21, 2023 11:19 AM EDT



- Areas outlined in **Orange** have the greatest potential for flash flooding through Thursday.
- Localized flash flooding, especially in urban and poor drainage areas.



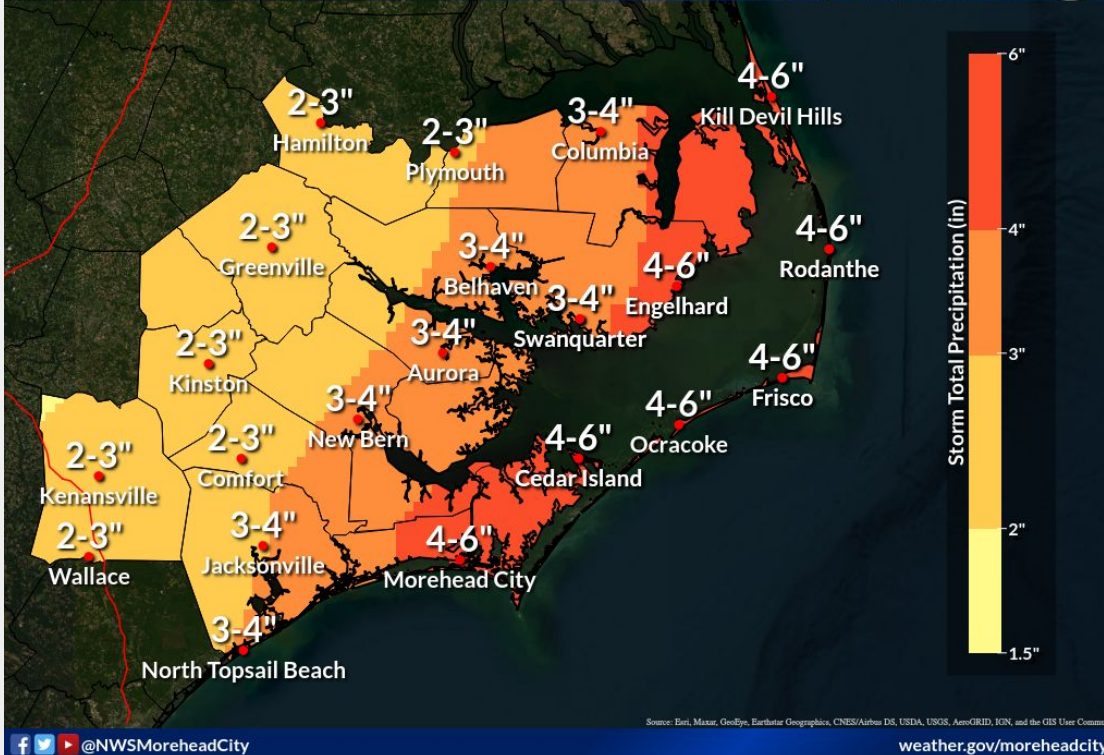
Expected Storm Total Rainfall

Potential Tropical Cyclone Sixteen

Total Rainfall Through Saturday

Potential Tropical Cyclone Sixteen

Weather Forecast Office
Newport/Morehead City, NC
Issued Sep 21, 2023 10:54 AM EDT



- An average of **2" to 4"** of rain is expected with isolated totals **up to 6"** possible.
- In the heaviest bands of rain, localized flash flooding is possible.

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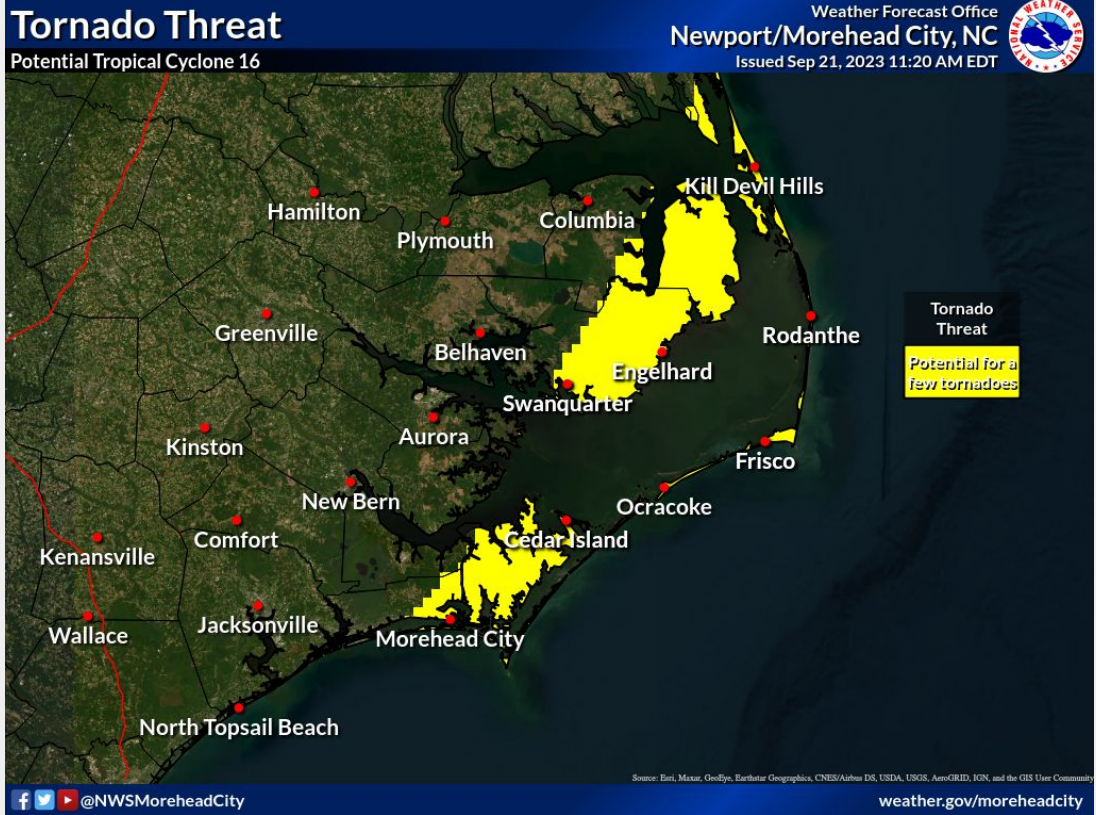
weather.gov/moreheadcity

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



Potential Tornado Impacts

Potential Tropical Cyclone Sixteen



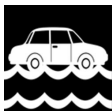
- Highest threat in **Yellow shaded areas**.
- A few tornadoes are possible.
- A few places may experience tornado damage, along with power and communications disruptions.
- **Nighttime tornadoes are particularly dangerous!** Have multiple ways to receive warnings, and at least one that can wake you up at night!



Key Take-Aways

Potential Tropical Cyclone Sixteen

Confidence is **HIGH** that the event will occur
Confidence is **MODERATE** regarding impacts



Storm surge inundation around 2-4 ft above ground is possible across coastal areas, with greatest confidence in impacts around the lower Pamlico and Neuse Rivers.



Tropical storm force winds possible mainly along the east of Us Hwy 17, with scattered tree damage and power outages possible.



Widespread rainfall of 2-4 inches, with locally higher amounts, could result in flash flooding issues, especially around urban and poor drainage areas.



A few tornadoes could bring locally enhanced damage, mainly across the Outer and Inner banks and Down East Carteret County.



Life-threatening surf conditions and dangerous marine conditions continue through the weekend.



Local Resources

Potential Tropical Cyclone Sixteen

Next Briefing:
630 PM This Evening
Method: Email



Web: www.weather.gov/mhx



Phone: (252) 223-5737 EXT 6



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