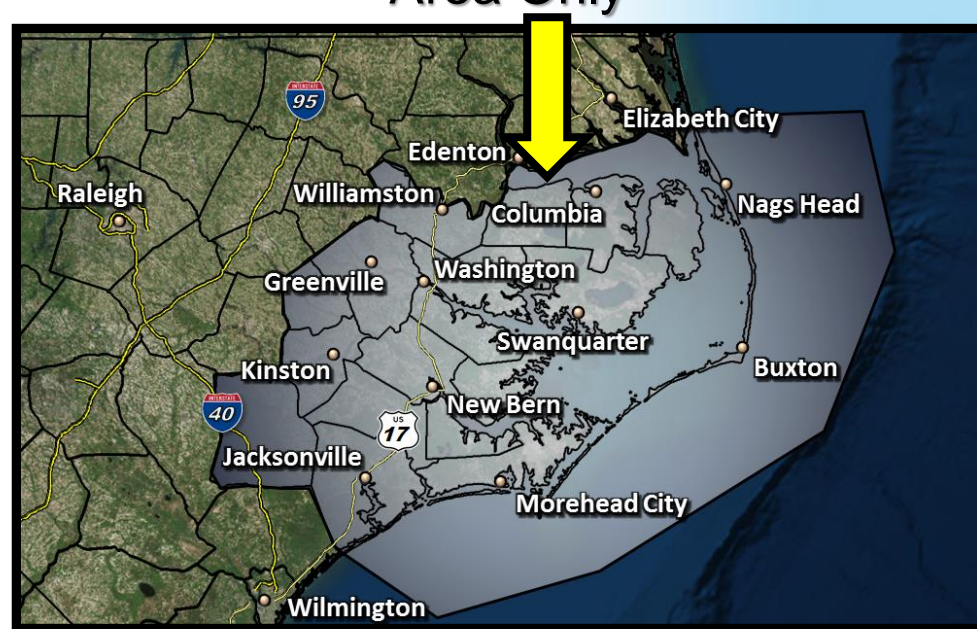


Coastal Storm Today through Monday

Decision Support Briefing # 7
As of: 7 AM Sunday, Dec 17, 2023

Briefing applies to the
Morehead City/Newport, NC
Area Only




What Has Changed?

- Issued a Flood Watch for much of Eastern NC.
- No major changes to forecast.



Main Points

Hazard	Impacts	Location	Timing
Coastal Flooding and Overwash 	<p>Coastal Flooding: Up to moderate to major inundation of low lying properties and roadways near tidal waterways.</p> <p>Ocean Overwash: Minor to moderate inundation of properties and roadways near vulnerable dune structures.</p>	<p>See map on following slides for full summary of impact locations.</p>	<p>See map on following slides for full summary of inundation timing.</p>
Wind 	<p>Strong winds could damage outdoor items, bring scattered power outages, and result in hazardous driving conditions for high-profile vehicles.</p>	<p>Highest winds Central/Southern Outer Banks and Down East. Wind impacts also expected remainder of coastal counties.</p>	<p>Highest winds this evening.</p>
Rainfall Amounts 	<p>2 to 4 inches of rainfall, with localized amounts to around 5 inches, could bring some flooding of poor drainage areas and hazardous travel.</p>	<p>All of Eastern NC, highest totals Coastal Plain counties.</p>	<p>Heaviest rainfall this afternoon and evening.</p>
Severe Storms 	<p>Strong storms and a tornado or two could produced locally enhanced wind damage.</p>	<p>Most of Eastern NC, with greatest threat closer to the southeast coast.</p>	<p>This evening.</p>
Marine & Rip Currents 	<p>Large, dangerous seas and rip currents.</p> <p>Winds with gusts to storm force.</p>	<p>Seas and Rip Currents: All coastal marine zones and area beaches.</p> <p>Storm Force Winds: Offshore waters from Surf City to Oregon Inlet.</p> <p>Gales: Remaining waters/sounds/ivers.</p>	<p>This afternoon through Monday morning. Highest winds and seas this evening.</p>

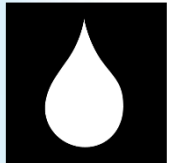
Summary of Greatest Impacts



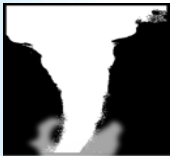
Coastal Flooding: See Maps to Follow



Strong Winds: See Maps to Follow



Rainfall: See Maps to Follow



Severe Storms/Tornadoes: Eastern NC



Marine: All Marine Areas

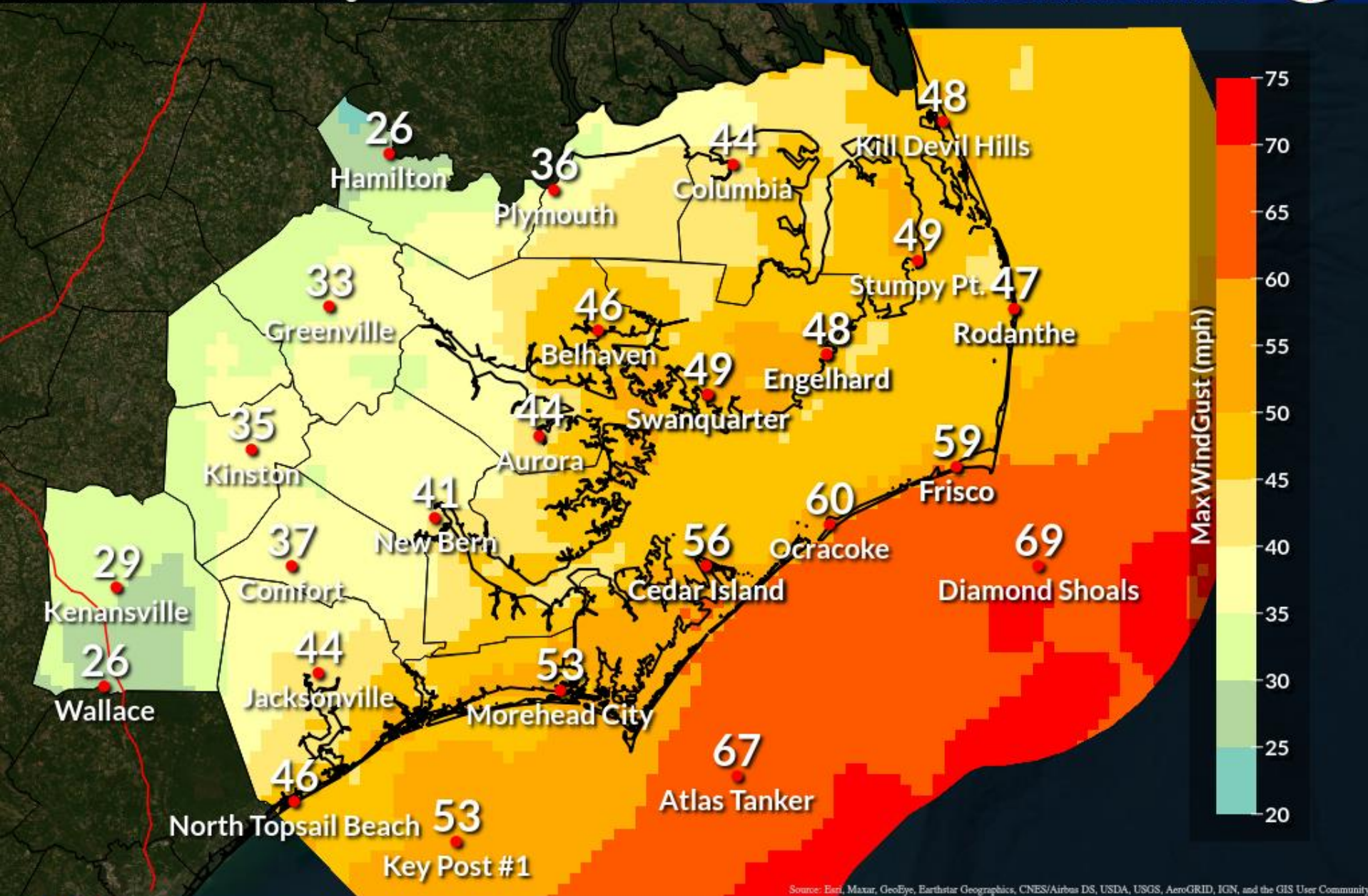


Peak Wind Gusts

Late This Afternoon into Evening

Weather Forecast Office
Newport/Morehead City, NC

Issued Dec 17, 2023 4:31 AM EST

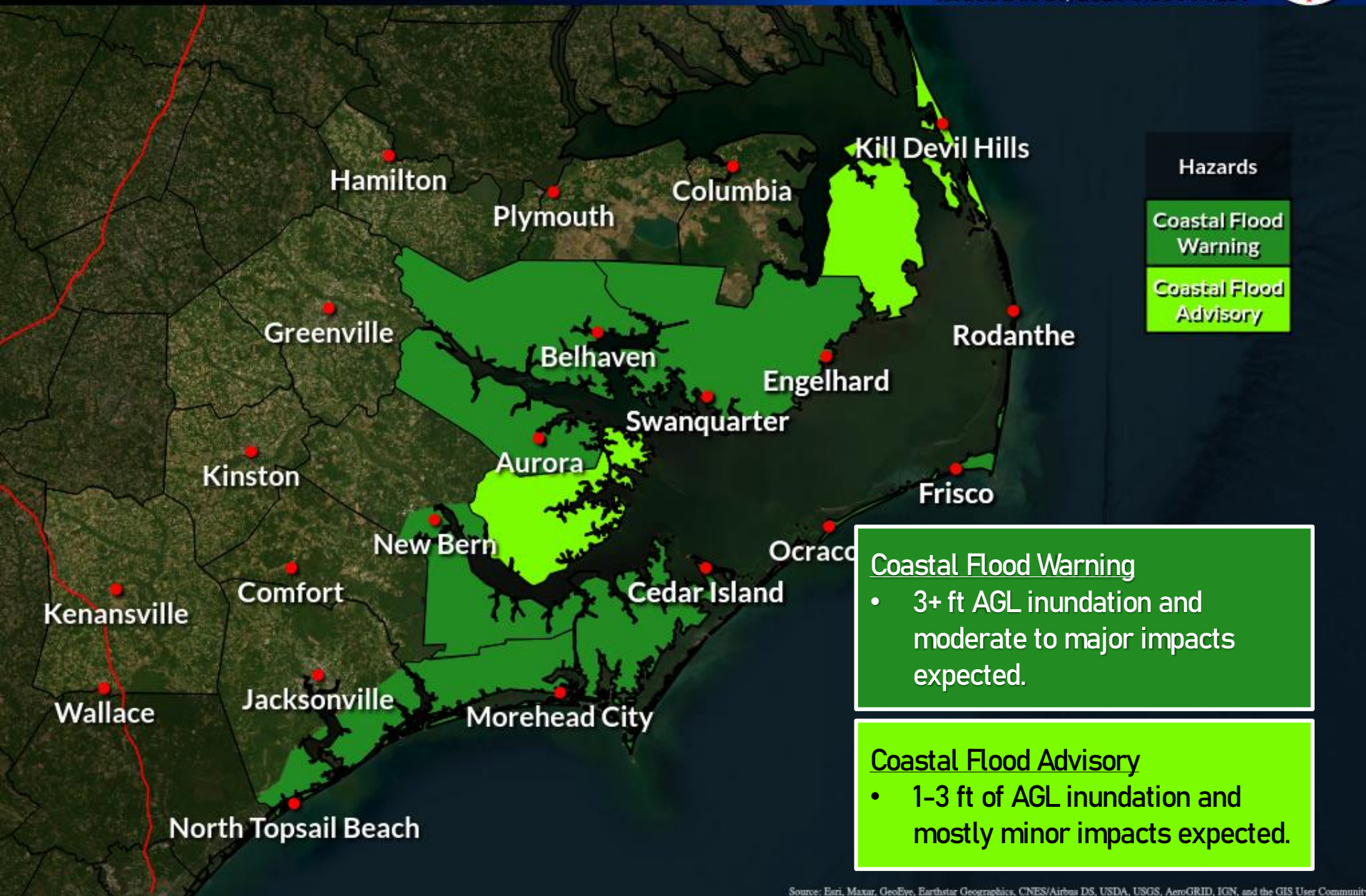


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Coastal Flood Headlines

Weather Forecast Office
Newport/Morehead City, NC

Issued Dec 16, 2023 3:30 PM EST



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

Coastal Flooding Threat

Weather Forecast Office
Newport/Morehead City, NC



Potential Inundation (above ground)

Beaufort and Western Hyde Counties

- 3 to 6 feet of inundation.
- Moderate flooding of low lying roads and properties.
- Timing: Late This Morning through Monday morning.

Pamlico & Craven Counties

- 2 to 4 feet of inundation near New Bern, 1 to 3 feet of inundation elsewhere on the lower Neuse River.
- Minor to locally Moderate flooding of low lying roads and properties.
- Timing: This afternoon through early Monday morning.

Carteret and Onslow Counties

- 2 to 4 feet of inundation possible today into early Monday morning.
- Minor to locally Moderate overwash for vulnerable dune areas today & tonight.
- Minor to Moderate flooding of low lying roads and properties.

North Topsail Beach

Jacksonville

Swansboro

Morehead City

Davis

Havelock

Oriental

New Bern

Aurora

Swanquarter

Engelhard

Belhaven

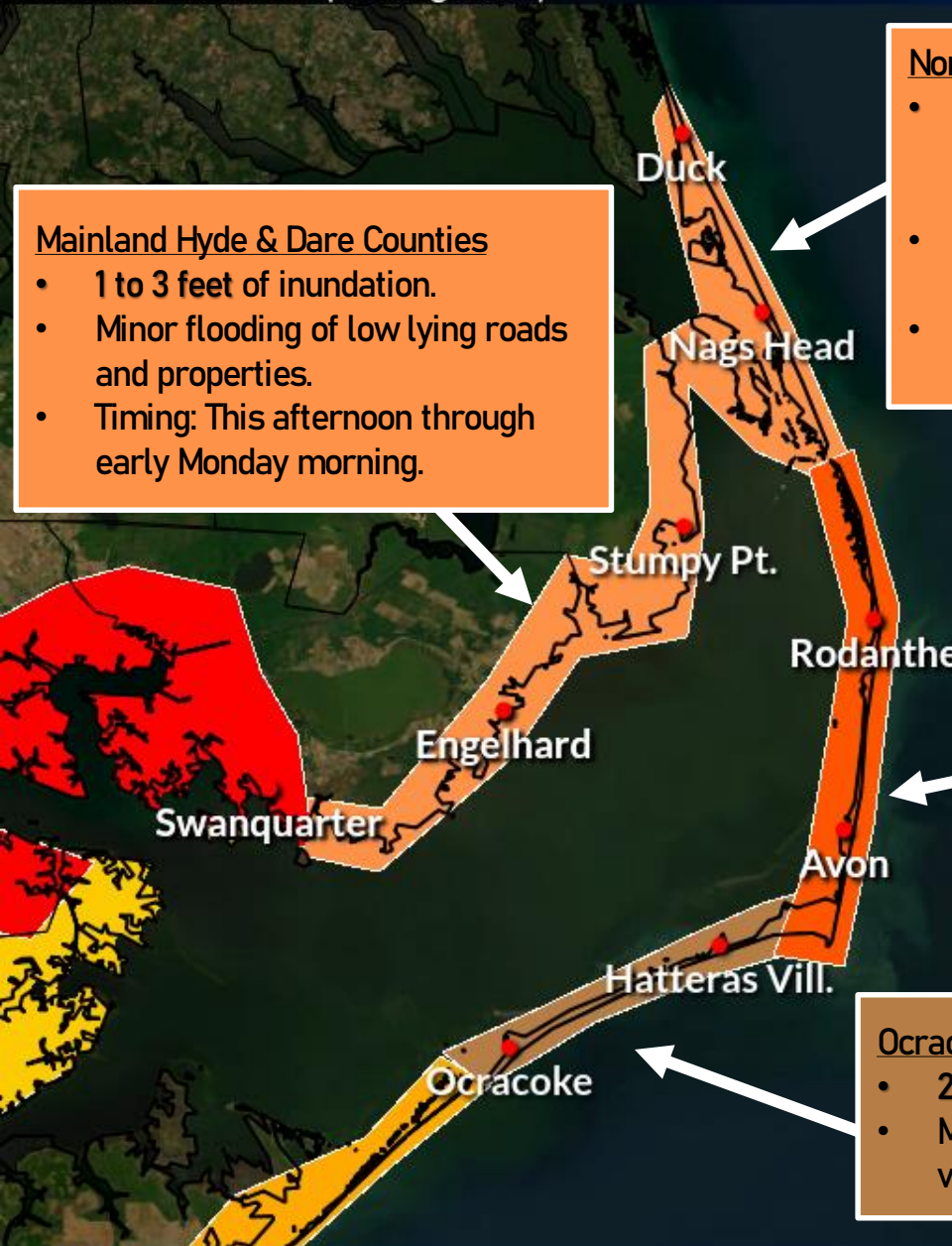
Washington

Source: Esri, Maxar, GeoEye, Earthstar Geogra

Coastal Flooding Threat



Potential Inundation (above ground)



Mainland Hyde & Dare Counties

- 1 to 3 feet of inundation.
- Minor flooding of low lying roads and properties.
- Timing: This afternoon through early Monday morning.

Northern Outer Banks & Roanoke Island

- 1 to 3 feet of inundation. Potential for rapid water level rises early Monday morning.
- Minor flooding of low lying roads and properties.
- Timing: Late Today through Monday Afternoon.

Hatteras Island

- 3 to 4 feet of inundation. Potential for very rapid water level rises early Monday morning
- Minor to Moderate flooding of low lying roads and properties.
- Minor to locally moderate ocean overwash near vulnerable dune structures today.
- Timing: This afternoon through Monday Afternoon

Ocracoke Island & Southern Hatteras Island

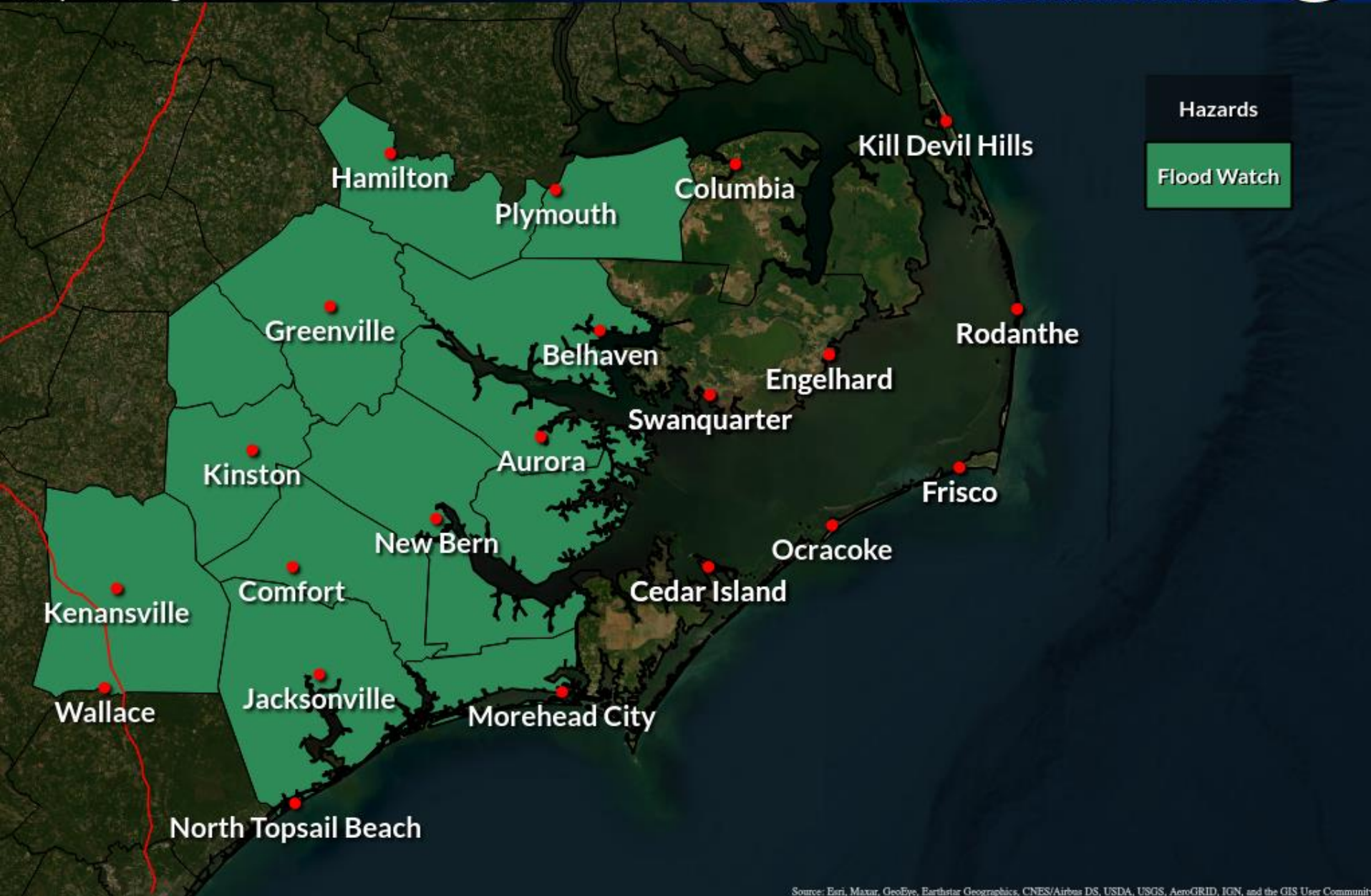
- 2 to 4 feet of inundation.
- Minor to locally moderate ocean overwash near vulnerable dune structures today and tonight

Flood Watch

Today into Tonight

Weather Forecast Office
Newport/Morehead City, NC

Issued Dec 17, 2023 5:07 AM EST



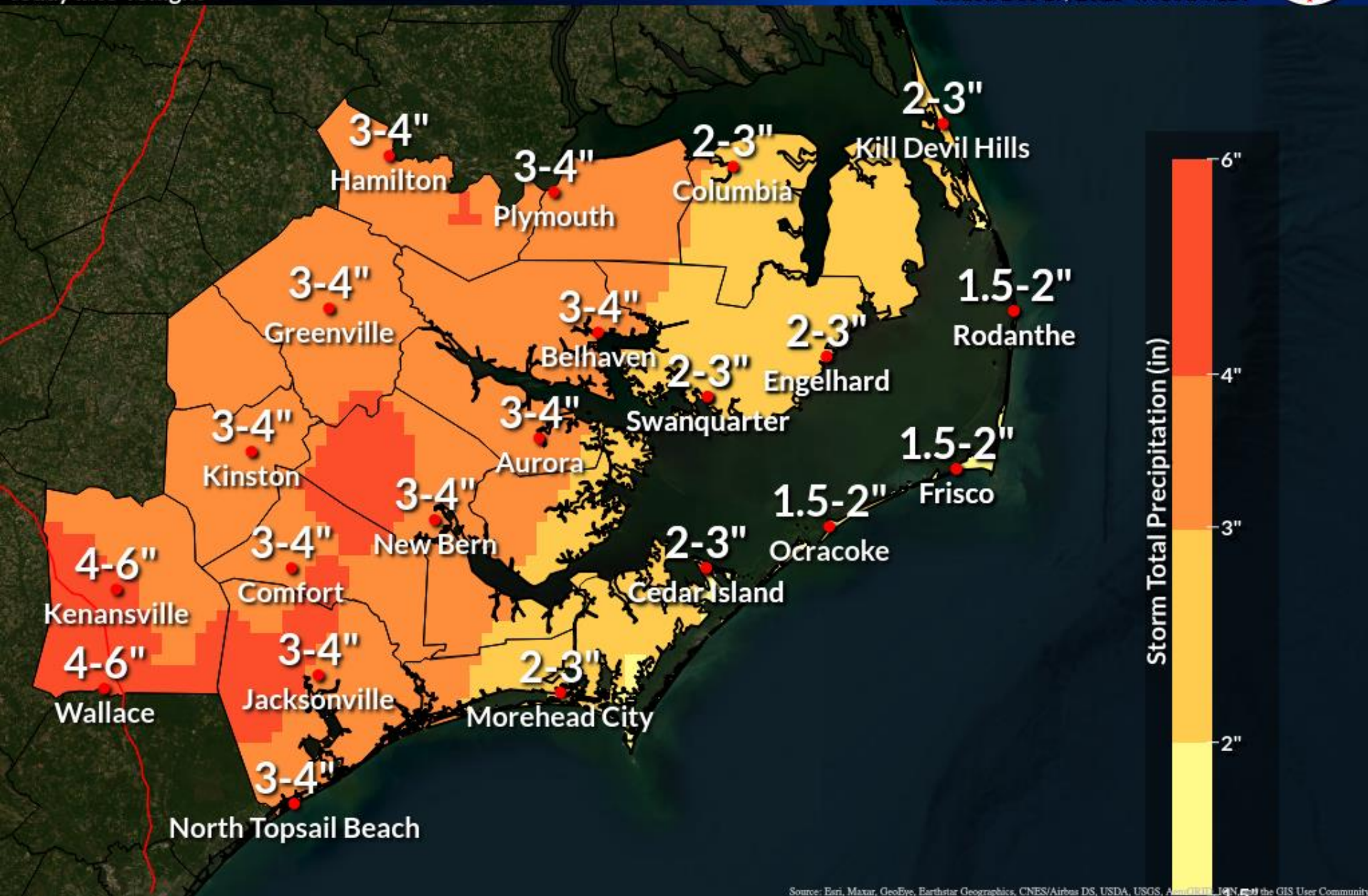
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Storm Total Rainfall

Today into Tonight

Weather Forecast Office
Newport/Morehead City, NC

Issued Dec 17, 2023 4:40 AM EST



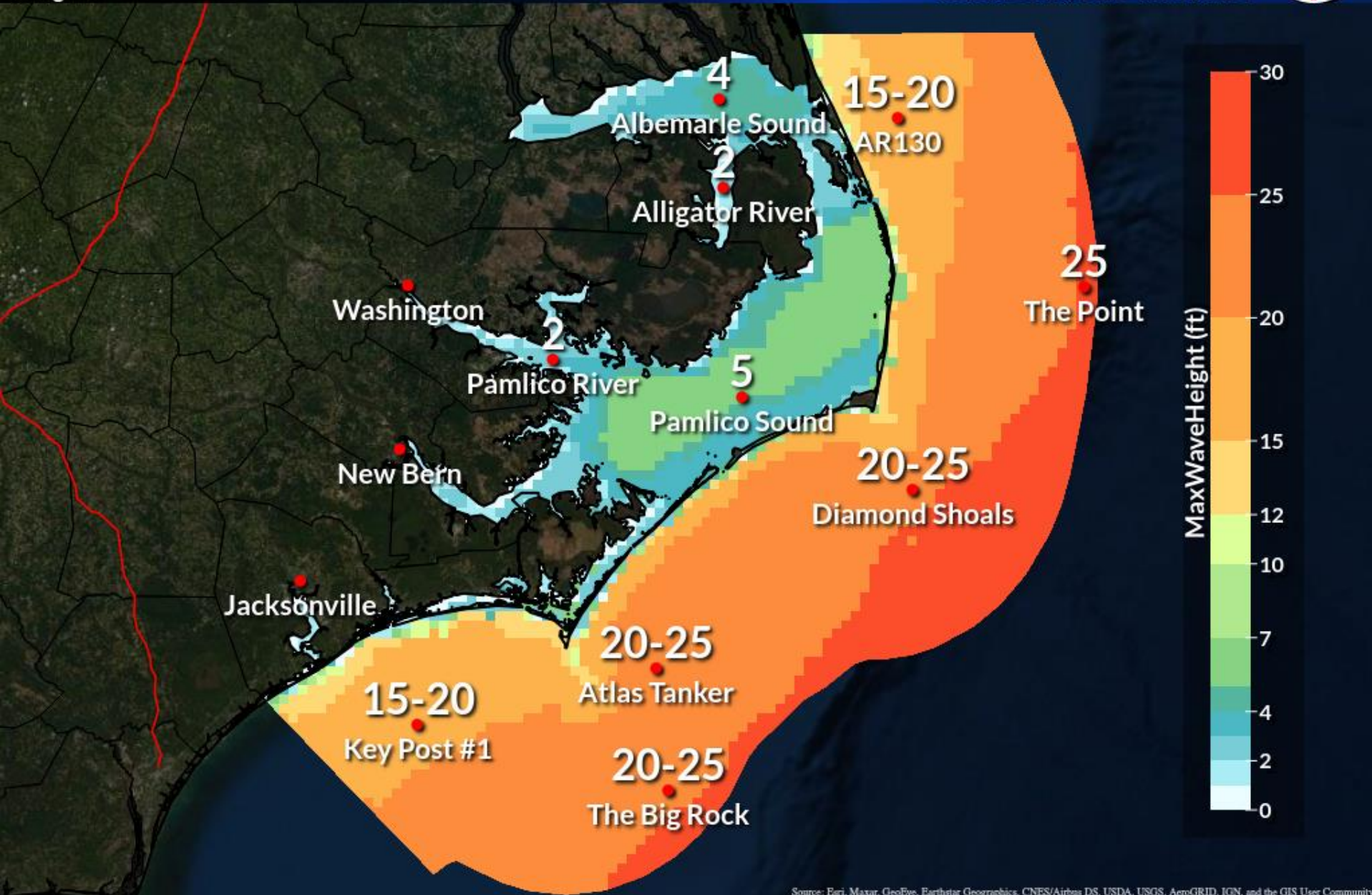
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Max Wave Heights

Tonight

Weather Forecast Office
Newport/Morehead City, NC

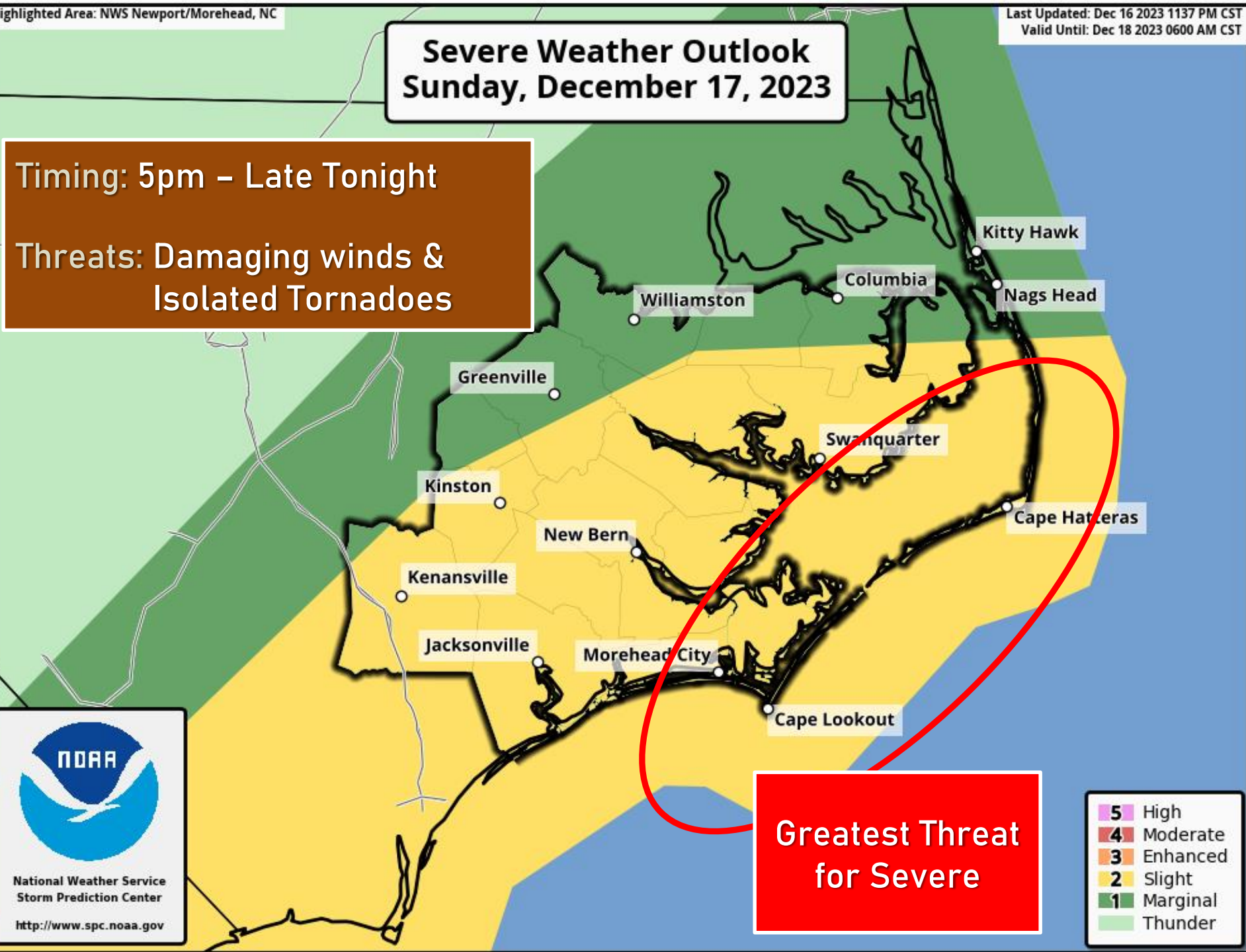
Issued Dec 17, 2023 4:37 AM EST



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

Severe Weather Outlook Sunday, December 17, 2023

Timing: 5pm - Late Tonight
Threats: Damaging winds & Isolated Tornadoes



**Greatest Threat
for Severe**

- 5 High
- 4 Moderate
- 3 Enhanced
- 2 Slight
- 1 Marginal
- Thunder



NWS
National Weather Service
Storm Prediction Center
<http://www.spc.noaa.gov>

Event Summary

✓ Confidence is **HIGH** that this event will occur, and we are expecting **MODERATE to MAJOR** impacts.



Coastal Flooding: Moderate to major soundside flooding possible tonight along the Pamlico and Pungo Rivers. Minor to moderate inundation possible across much of the rest of ENC, with rapid water level rises possible for the soundside Outer Banks early Monday morning.

Ocean Overwash: Large surf is expected for beaches from Rodanthe to Surf City, particularly late today into early Monday, leading to potential beach erosion and overwash in vulnerable areas.



Winds: Windy conditions could damage outdoor items, bring scattered power outages, and result in hazardous driving conditions for high-profile vehicles. Strongest winds along the Outer Banks and Downeast Carteret this evening.



Rainfall: 2 to 4 inches of rainfall across most of eastern NC, with localized amounts up to 6 inches possible along and west of US Hwy 17. A flood watch is in effect.



Severe: A few strong to severe storms and a tornado or two could produce locally enhanced damage, highest threat near the southeastern coast.



Very Dangerous Marine Conditions: Dangerous seas 15-25 ft with up to Storm Force winds late this afternoon through evening.

Contact and Next Briefing Information



The next briefing will be sent out as conditions warrant



[Briefing Webpage](#)



Web:

<http://www.weather.gov/mhx/>



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