

Strong Cold Front Tuesday and Wednesday

Decision Support Briefing # 3
As of: 4 PM Sunday, Jan 7, 2024





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



What Has Changed?

- *This is the first full briefing*

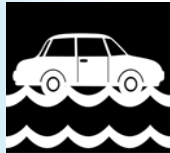
Main Points

Hazard	Impacts	Location	Timing
Wind 	<p>Very windy conditions could bring down trees, damage outdoor items, bring at least isolated power outages, and result in hazardous driving conditions for high-profile vehicles.</p>	<p>Greatest wind threat for Outer Banks, the Crystal Coast and sites along the western Pamlico Sound.</p>	<p>Strongest winds Tuesday evening and Tuesday night</p>
Coastal Flooding 	<p>Coastal Flooding: Moderate to significant inundation possible.</p> <p>Ocean Overwash: Large surf will bring beach erosion and the potential for significant overwash in vulnerable areas.</p>	<p>Soundside - Soundside Outer Banks and the western Pamlico Sound including Pamlico/Pungo, with potential for inundation 2-4 ft agl with locally higher amounts possible</p> <p>Soundside - Neuse/Bay Rivers and Crystal Coast area with potential inundation up to 2 ft agl</p> <p>Ocean Overwash: All beaches, but especially from Oregon Inlet to Ocracoke and North Topsail</p>	<p>Coastal Flooding: Highest inundation Tuesday night into Wednesday</p> <p>Ocean Overwash: Greatest impacts Tuesday afternoon into Wednesday</p>
Severe Weather and Rainfall 	<p>Slight Risk of Severe Thunderstorms Tuesday evening and Tuesday night, with damaging winds and isolated tornadoes possible.</p> <p>2 to 3 inches of rainfall could bring localized flooding of poor drainage areas and hazardous travel conditions.</p>	<p>All of Eastern NC</p>	<p>Tuesday evening and Tuesday night</p>
Marine 	<p>Large, dangerous seas and rip currents.</p> <p>Winds ranging from Gale to Storm force.</p>	<p>Seas and Rip Currents: All coastal marine zones and area beaches.</p> <p>Storm Force Winds: coastal waters from Currituck Beach Light to Surf City and the Pamlico Sound</p> <p>Gale Force Winds: Albemarle Sound and rivers</p>	<p>Tuesday into Wednesday</p>

Summary of Greatest Impacts



Strong Winds: See Maps to Follow



Coastal Flooding: See Maps to Follow



Severe Weather and Rainfall: See Maps to Follow



Marine: All Marine Areas



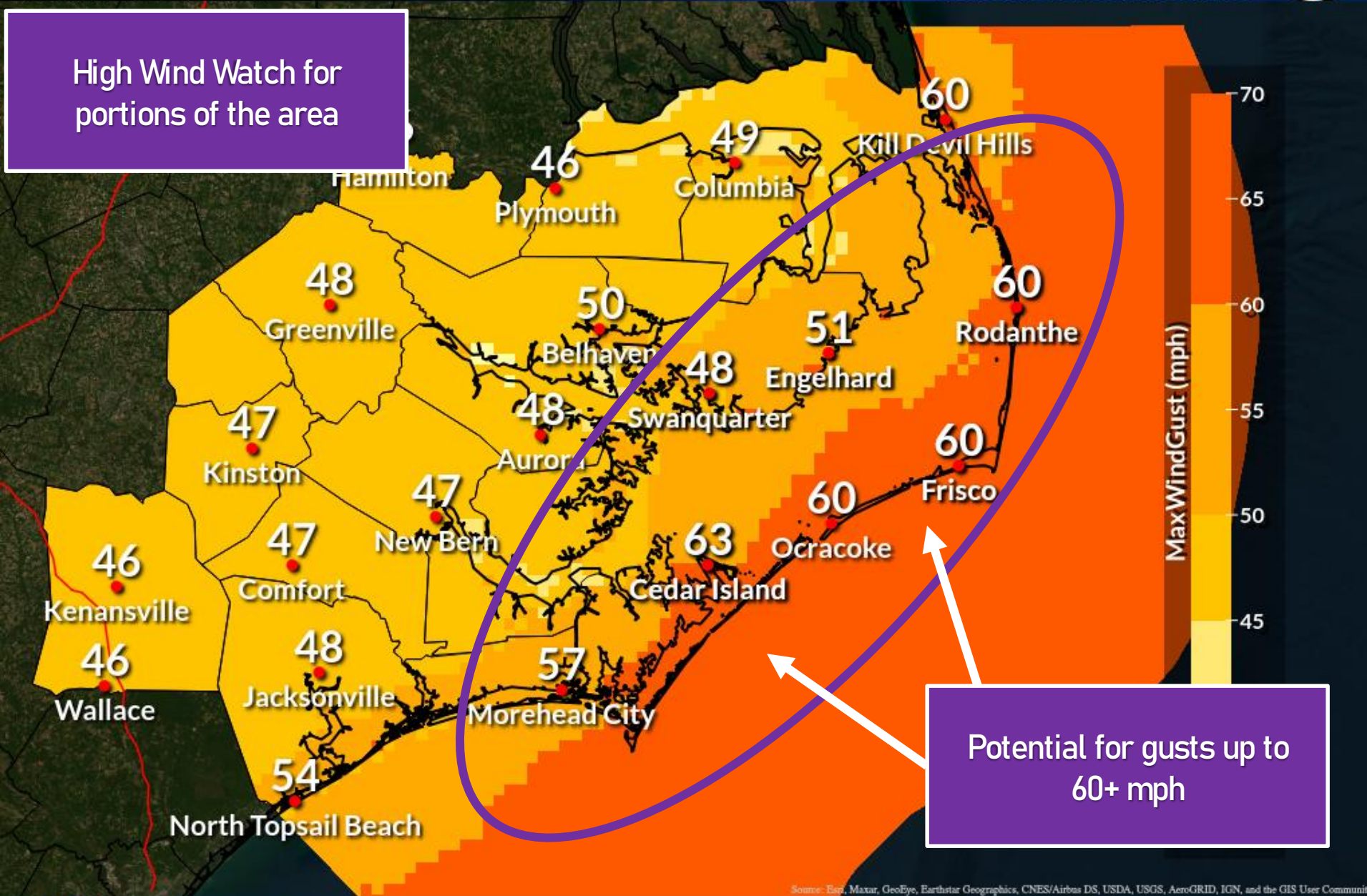
Max Wind Gusts

Tuesday and Wednesday

Issued Jan 07, 2024 1:48 PM EST



High Wind Watch for portions of the area



Potential for gusts up to 60+ mph

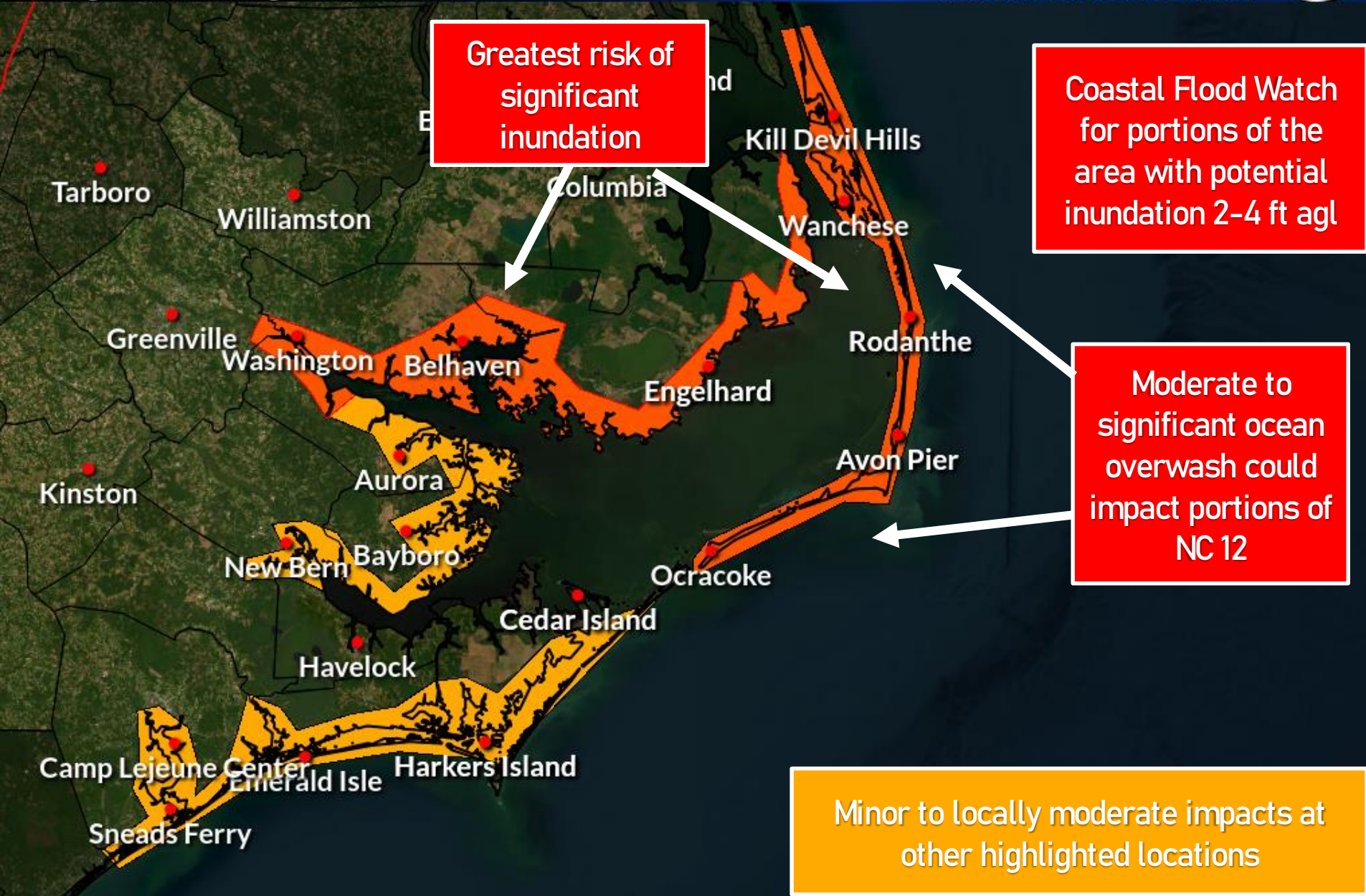
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Coastal Flooding Threat

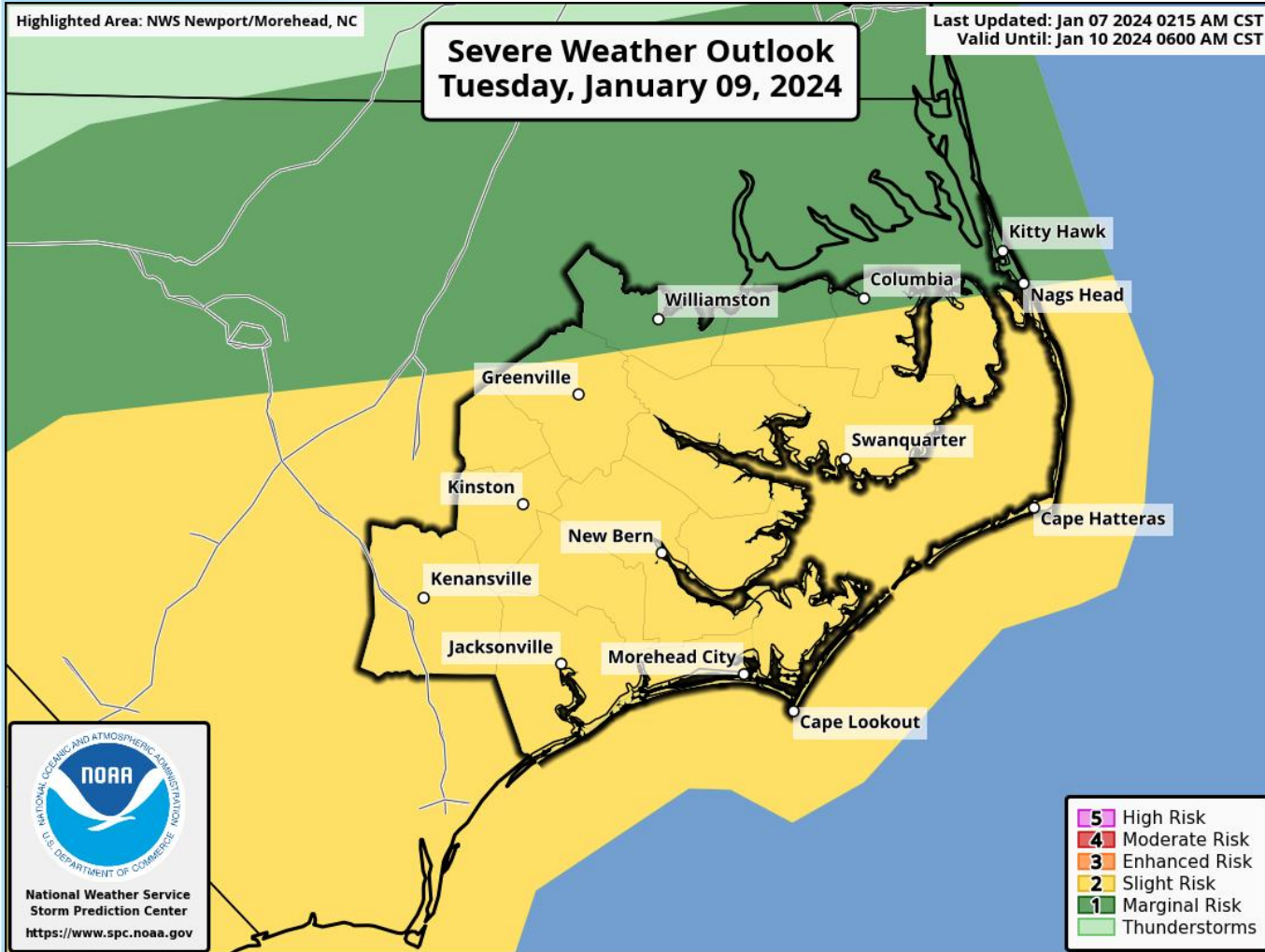
Most Significant Flooding Potential in Red

Weather Forecast Office
Newport/Morehead City, NC

Issued Jan 07, 2024 2:26 PM EST



Severe Weather Threat Tuesday Evening and Tuesday Night



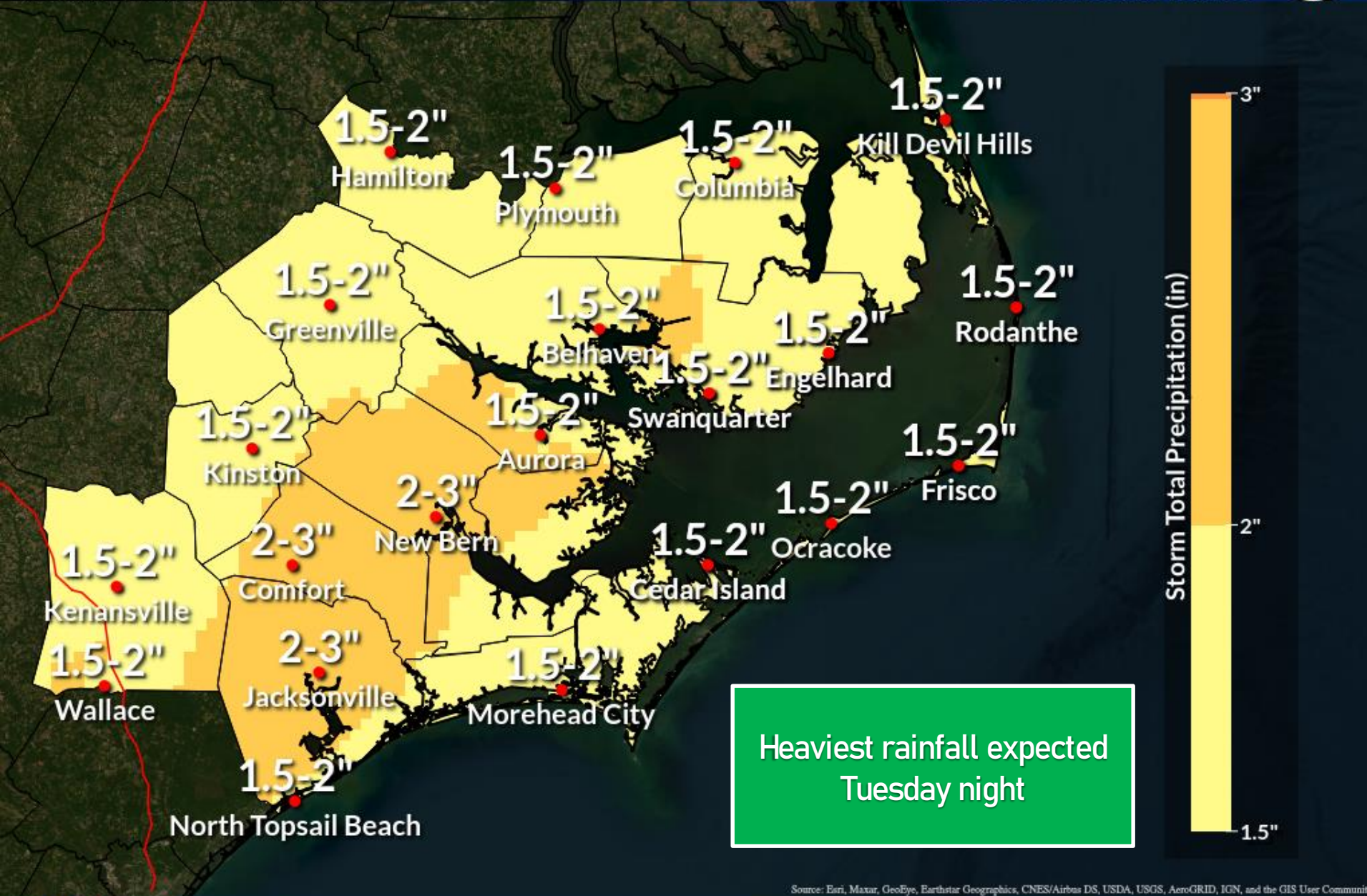
Isolated to scattered severe thunderstorms possible with potential for damaging winds and isolated tornadoes

Storm Total Rainfall

Tuesday into early Wednesday

Weather Forecast Office
Newport/Morehead City, NC

Issued Jan 07, 2024 1:54 PM EST



Heaviest rainfall expected
Tuesday night

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

Dangerous Marine Conditions Expected

Tuesday and Wednesday

Weather Forecast Office
Newport/Morehead City, NC

Issued Jan 07, 2024 3:21 PM EST



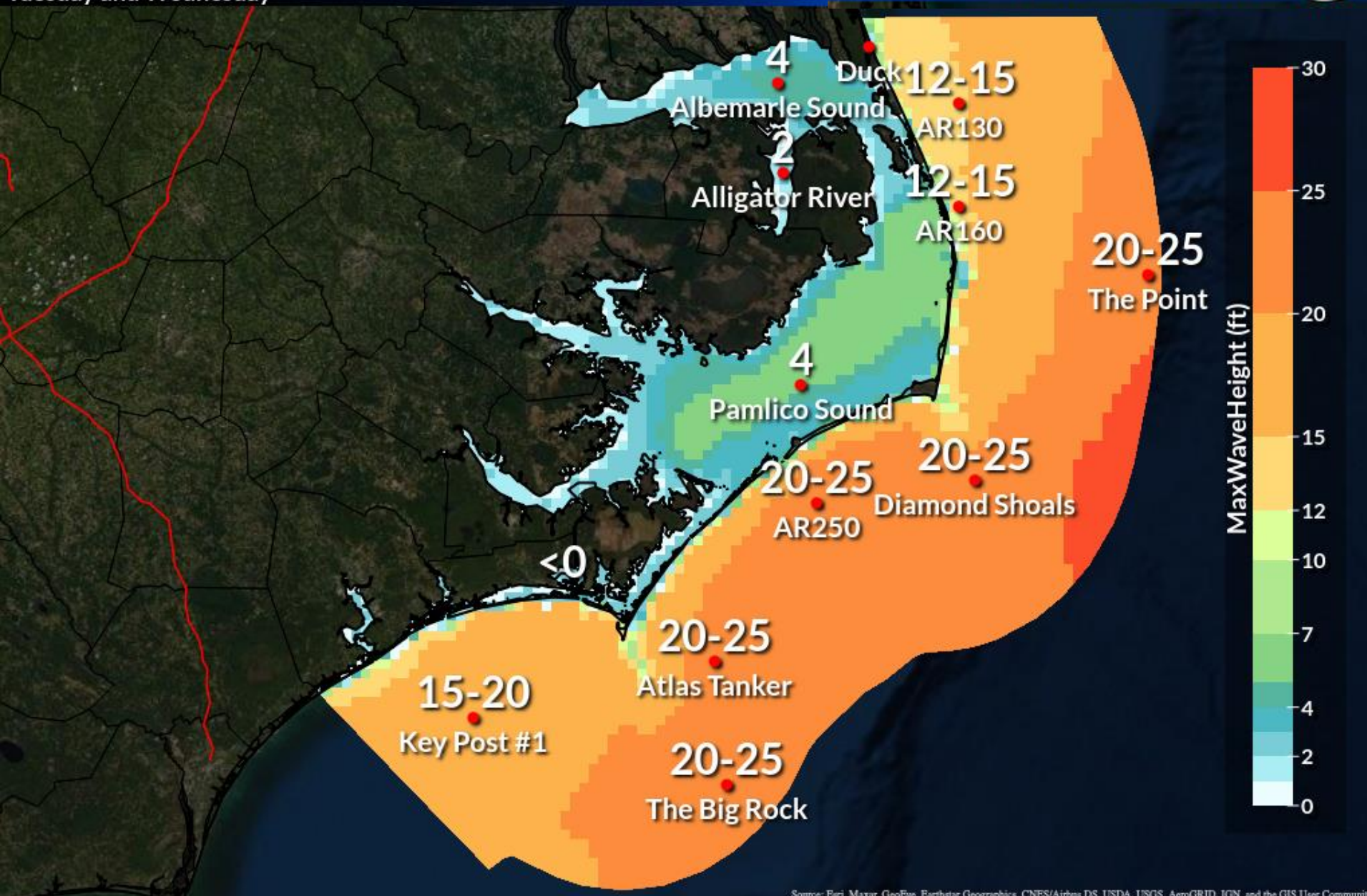
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Max Wave Height (ft.)

Tuesday and Wednesday

Weather Forecast Office
Newport/Morehead City, NC

Issued Jan 07, 2024 1:48 PM EST



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

Event Summary

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



Winds: Very windy conditions could bring down trees, damage outdoor items, bring at least isolated power outages, and result in hazardous driving conditions for high-profile vehicles. Most vulnerable locations along the Outer Banks and western Pamlico Sound on Tuesday night.



Coastal Flooding: Minor to moderate soundside flooding likely Tuesday afternoon into Wednesday, especially for the soundside Outer Banks and the western Pamlico Sound including Pamlico, Pungo, Neuse and Bay Rivers.



Ocean Overwash: Large surf is expected for all beaches but especially from Oregon Inlet to Ocracoke as well as North Topsail, leading to potential beach erosion and moderate to significant ocean overwash in vulnerable areas. Highest risk late Tuesday into Wednesday.



Very Dangerous Marine Conditions: Dangerous seas 20-25 ft with up to Storm Force winds Tuesday and Wednesday. Dangerous surf conditions especially north of Cape Lookout.

Contact and Next Briefing Information



The next briefing will be sent out by 10 AM Monday 1/8/2024

[Briefing Webpage](#)



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