

Strong Cold Front Tuesday and Wednesday

Decision Support Briefing # 4
As of: 7 AM Monday, Jan 8, 2024





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



What Has Changed?

- **High Wind Warnings, Wind Advisories, Storm Warnings, Coastal Flood Warnings/Advisories, and High Surf Advisories issued**

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 & 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 Rivers, with potential for inundation 2-4 ft agl with locally higher amounts possible</p> <p>Soundside - Neuse/Bay Rivers & Crystal Coast area with 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>Enhanced Risk of Severe Thunderstorms Tuesday evening and Tuesday night, with damaging winds and isolated tornadoes possible.</p> <p>1 to 2 inches of rainfall could bring localized flooding of poor drainage areas and hazardous travel conditions.</p>	<p>All of Eastern NC</p>	<p>Tuesday afternoon & Tuesday night</p>
Marine 	<p>Large, dangerous seas and rip currents.</p> <p>Winds ranging from Gale to Storm force.</p>	<p>All coastal marine zones and area beaches.</p>	<p>Tuesday into Wednesday</p>

Summary of Greatest Impacts



Strong Winds: See Maps to Follow

None	Limited	Elevated	Significant	Extreme
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Coastal Flooding: See Maps to Follow

None	Limited	Elevated	Significant	Extreme
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Severe Weather and Rainfall: See Maps to Follow

None	Limited	Elevated	Significant	Extreme
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Marine: All Marine Areas

None	Limited	Elevated	Significant	Extreme
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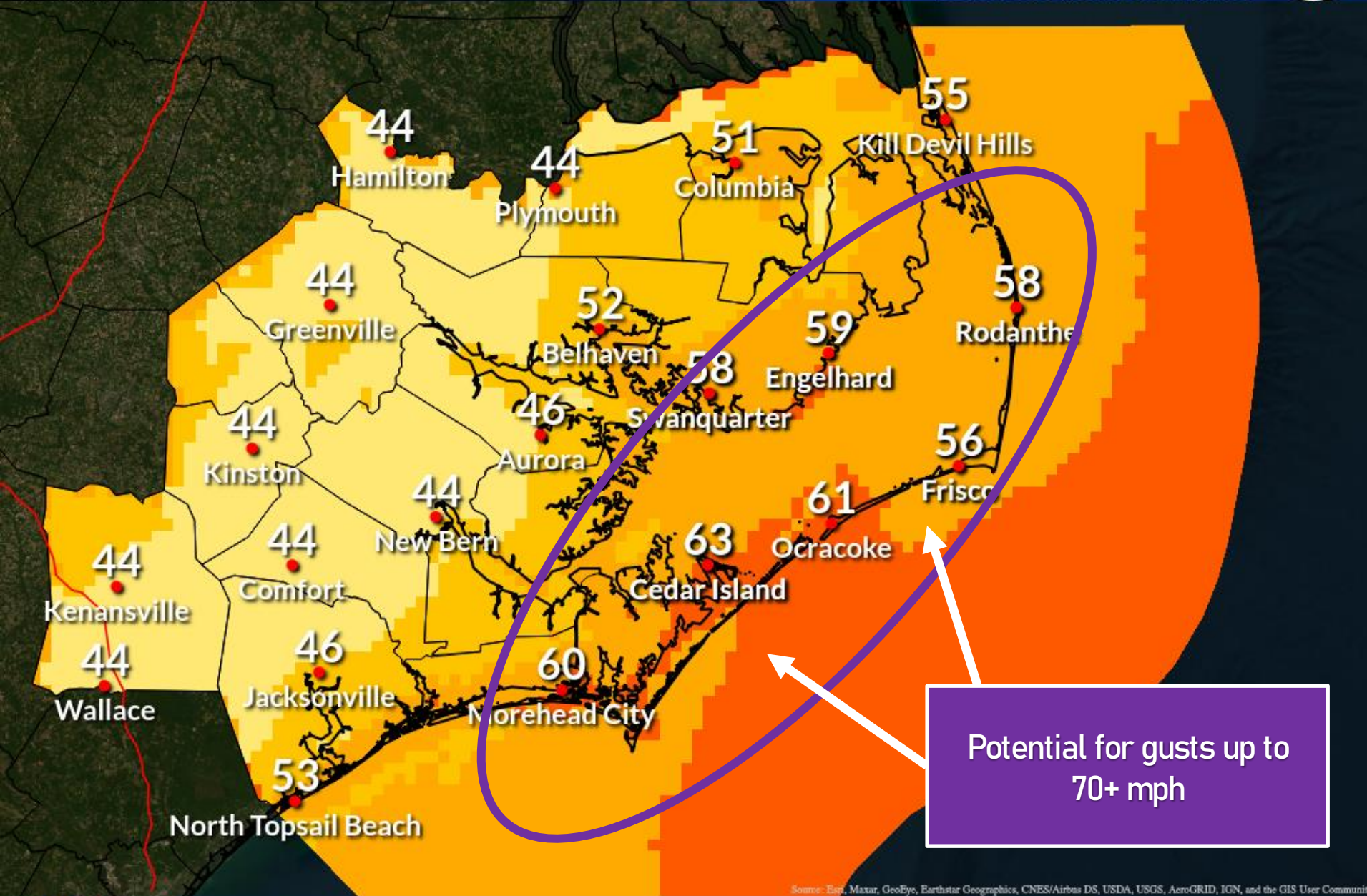


Forecast Max Wind Gusts (mph)

Tuesday and Wednesday

Weather Forecast Office
Newport/Morehead City, NC

Issued Jan 08, 2024 5:09 AM EST



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

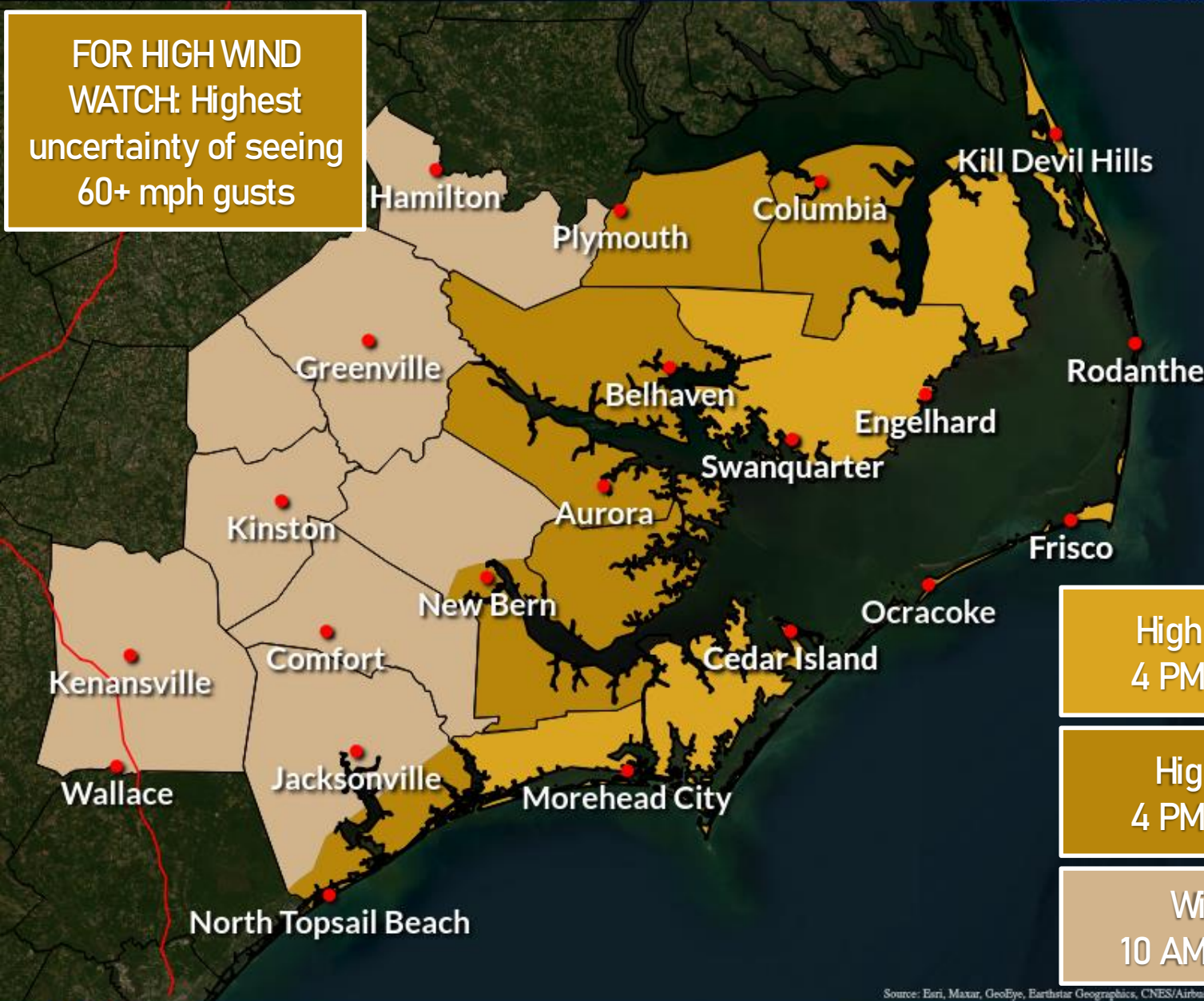
Wind Headlines

Weather Forecast Office
Newport/Morehead City, NC

Issued Jan 08, 2024 5:21 AM EST



FOR HIGH WIND WATCH: Highest uncertainty of seeing 60+ mph gusts



High Wind WARNING
4 PM Tue – 1 AM Wed

High Wind WATCH
4 PM Tue – 1 AM Wed

Wind ADVISORY
10 AM Tue – 10 PM Tue

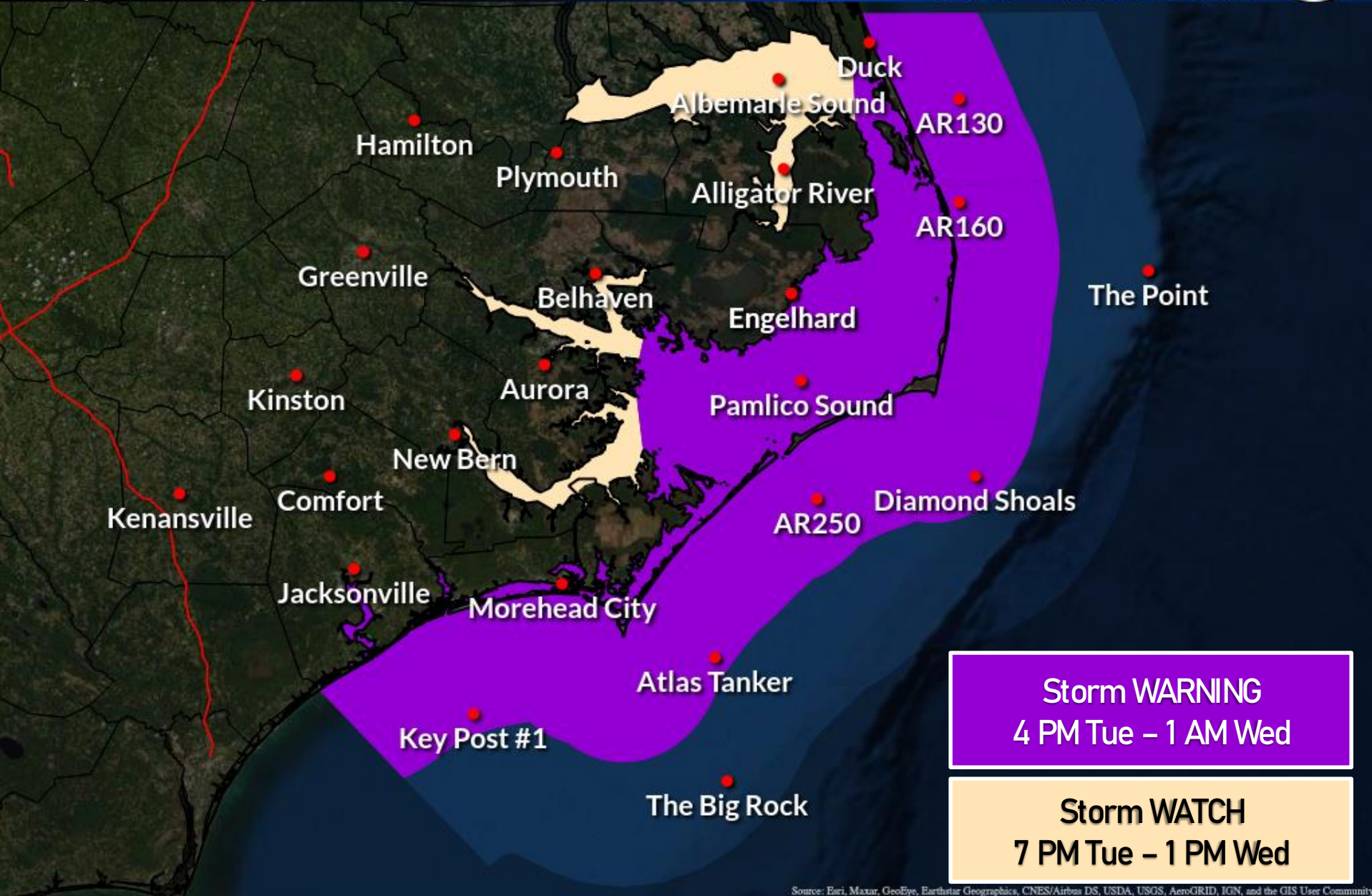
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Marine Headlines

Tuesday and Wednesday

Weather Forecast Office
Newport/Morehead City, NC

Issued Jan 08, 2024 5:24 AM EST



Storm WARNING
4 PM Tue – 1 AM Wed

Storm WATCH
7 PM Tue – 1 PM Wed

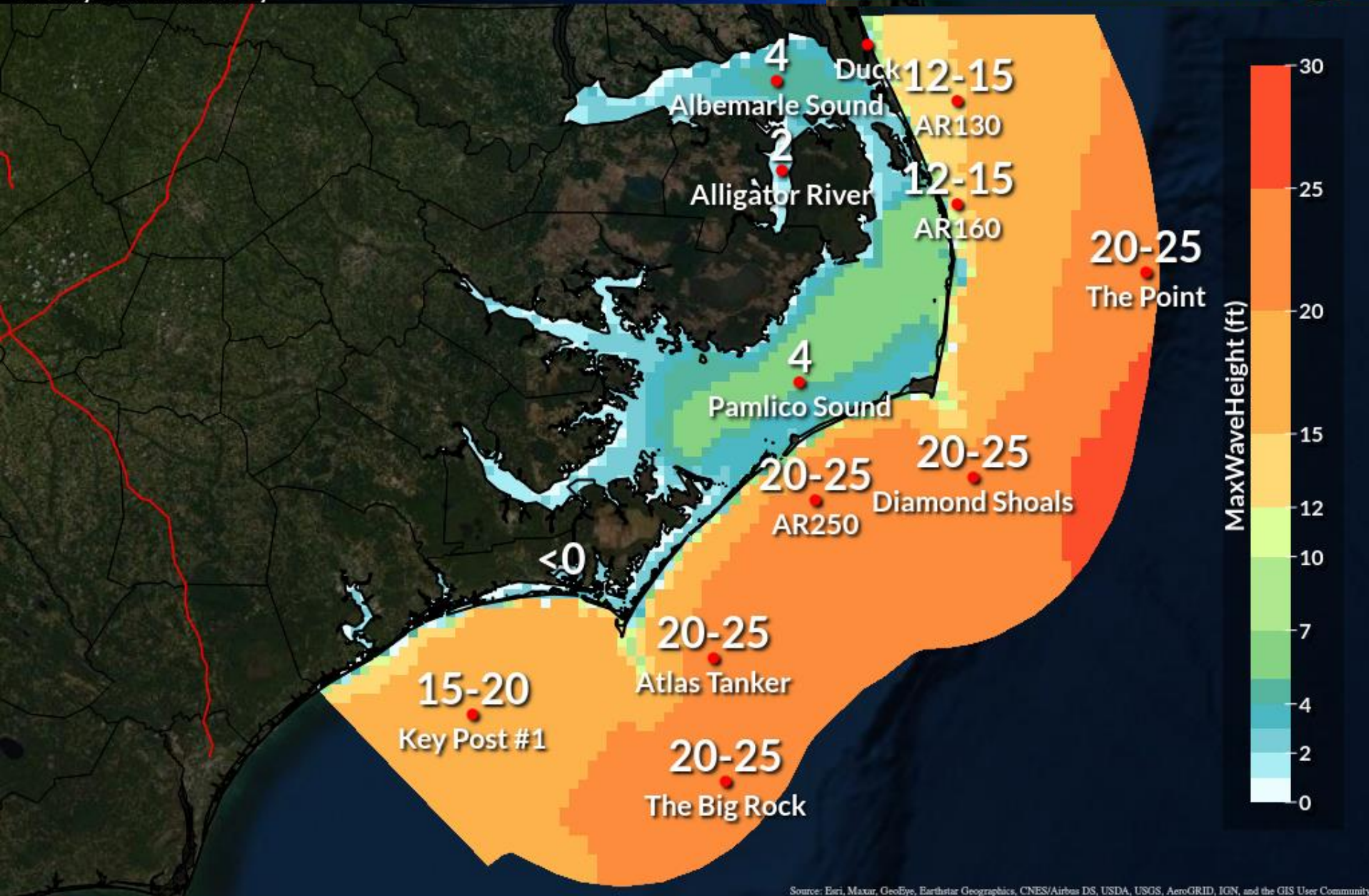
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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

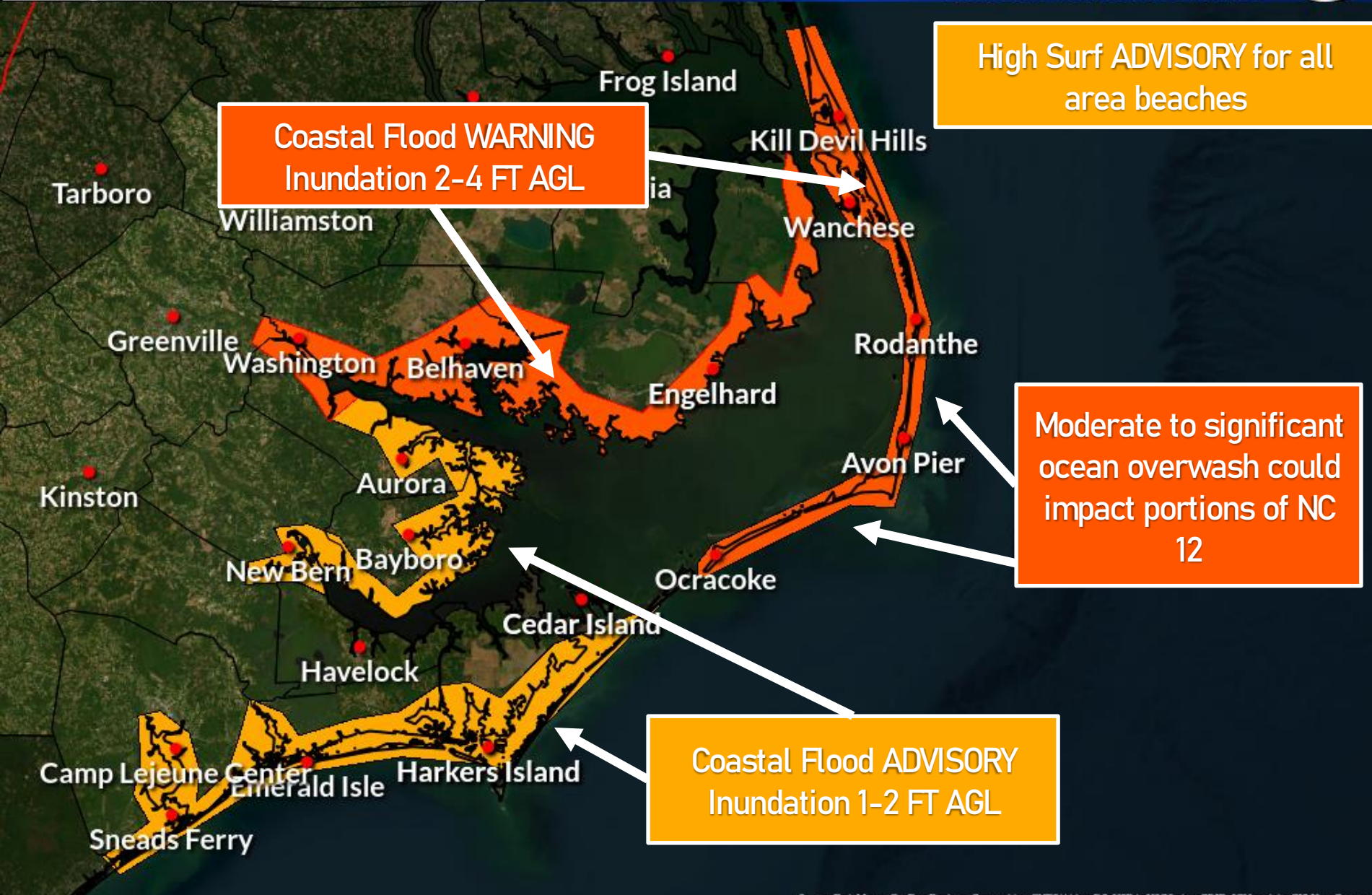
Coastal Flooding Threat

Weather Forecast Office
Newport/Morehead City, NC

Issued Jan 07, 2024 2:26 PM EST



Valid Tues and Wed

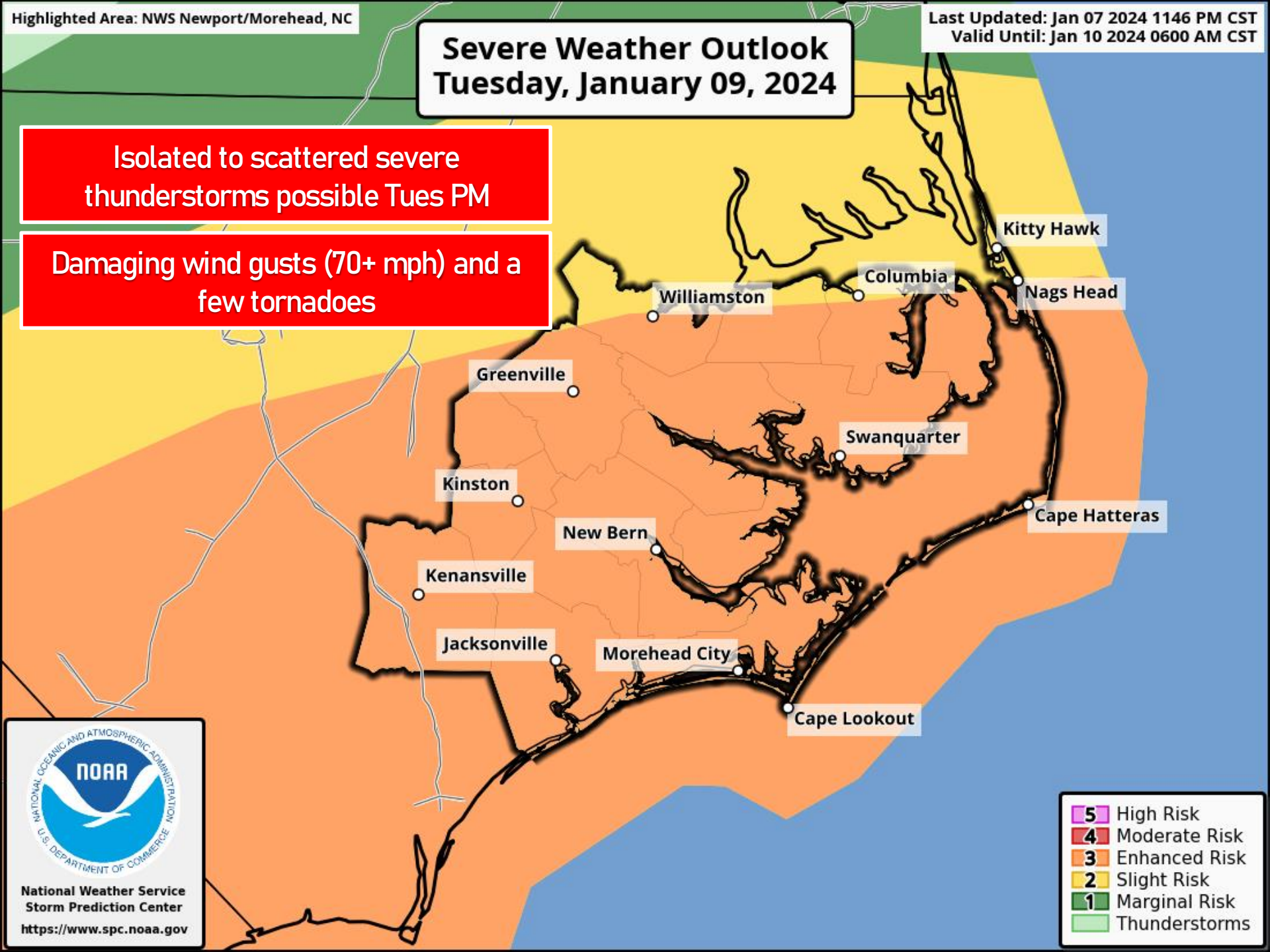


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Severe Weather Outlook Tuesday, January 09, 2024

Isolated to scattered severe thunderstorms possible Tues PM

Damaging wind gusts (70+ mph) and a few tornadoes



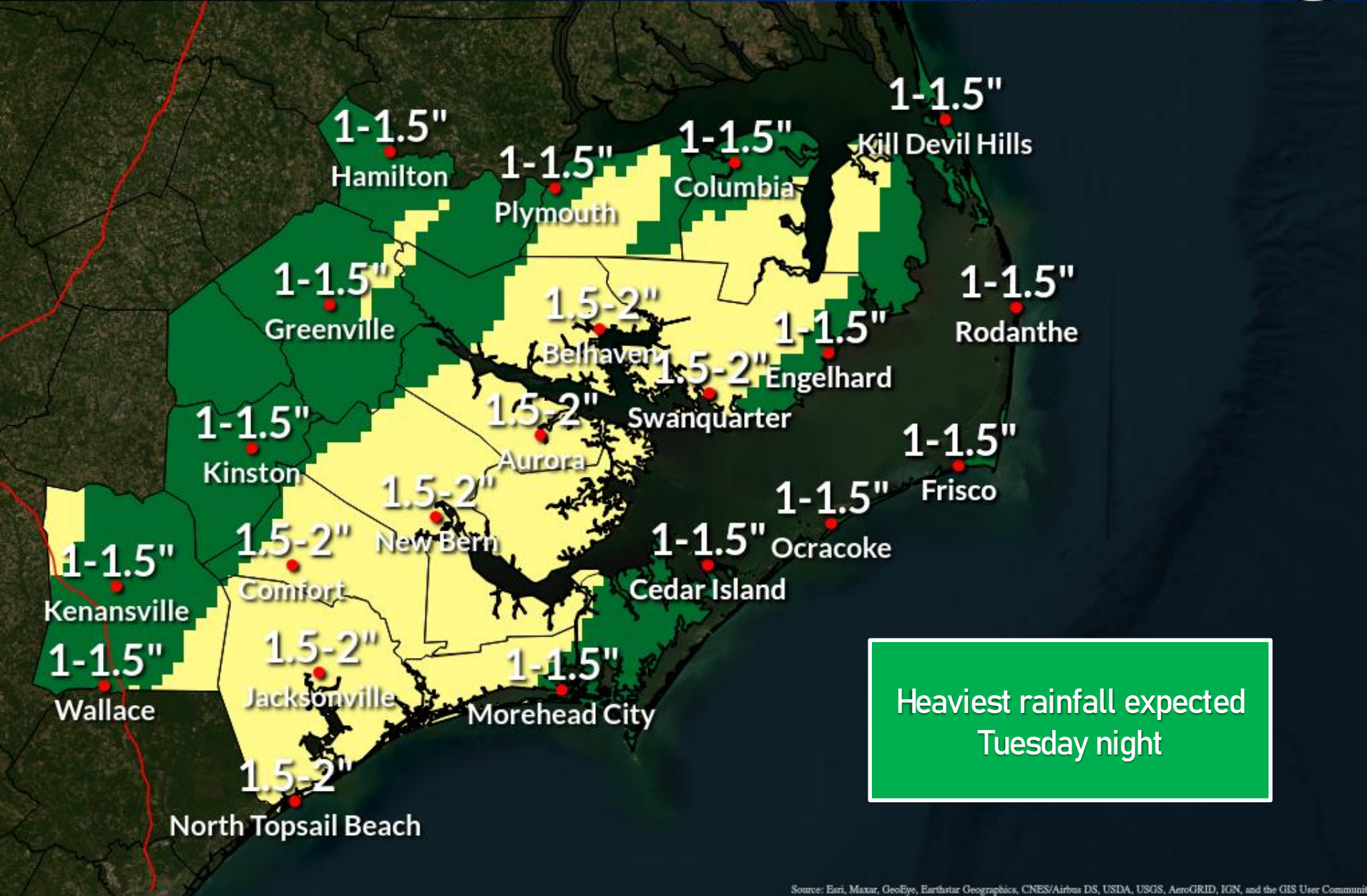
5	High Risk
4	Moderate Risk
3	Enhanced Risk
2	Slight Risk
1	Marginal Risk
	Thunderstorms

Storm Total Rainfall

Tuesday into Wednesday

Weather Forecast Office
Newport/Morehead City, NC

Issued Jan 08, 2024 5:19 AM EST



Heaviest rainfall expected
Tuesday night

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 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 6 PM Monday 1/8/2024

[Briefing Webpage](#)



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



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