

Strong Cold Front Tuesday and Wednesday

Decision Support Briefing # 5
As of: 4 PM Monday, Jan 8, 2024





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



What Has Changed?

- *High Wind Watches changed to Warnings and expanded further west to include Inland Onslow and Jones Counties, Storm Watches changed to Warnings.*

Main Points

Hazard	Impacts	Location	Timing
Wind 	<p>Strong winds could damage trees, power lines, and structures, and may result in scattered power outages. The winds will also lead to hazardous driving conditions for high-profile vehicles.</p>	<p>All of Eastern NC</p>	<p>Strongest winds Tuesday afternoon through 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 Rivers, with potential for inundation 2-4 ft above ground level (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 	<p>Areas of enhanced wind damage to trees, power lines, and structures</p> <p>Flooding of urban and poor-drainage areas.</p> <p>Flash flooding</p>	<p>All of Eastern NC</p>	<p>Tuesday afternoon through Tuesday night</p>
Marine 	<p>Extremely hazardous conditions for mariners (due to strong winds and dangerous seas)</p> <p>Dangerous conditions along area beaches</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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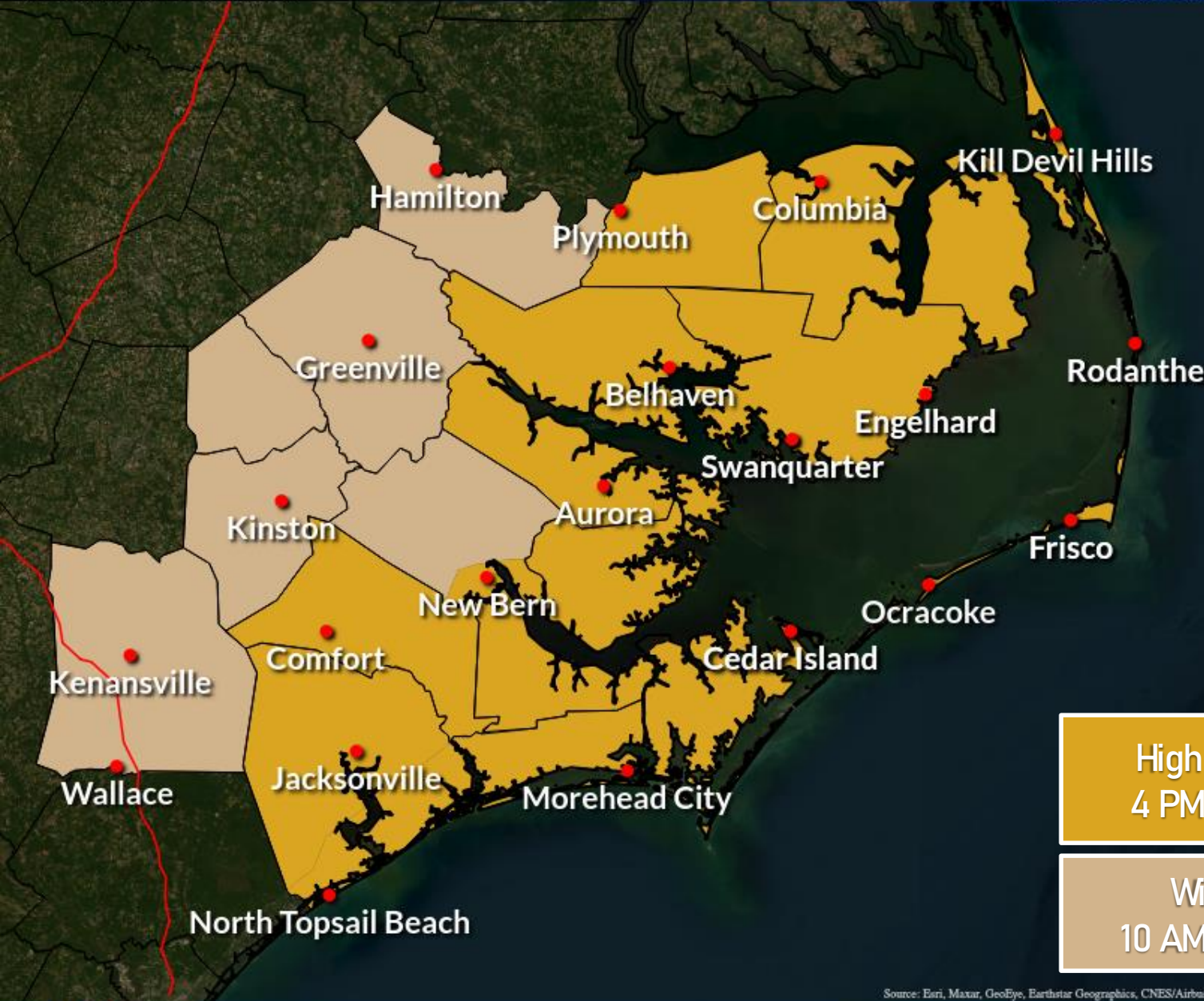


Wind Headlines

Tuesday and Wednesday

Weather Forecast Office
Newport/Morehead City, NC

Issued Jan 08, 2024 3:55 PM EST



High Wind WARNING
4 PM Tue – 1 AM Wed

Wind ADVISORY
10 AM Tue – 10 PM Tue

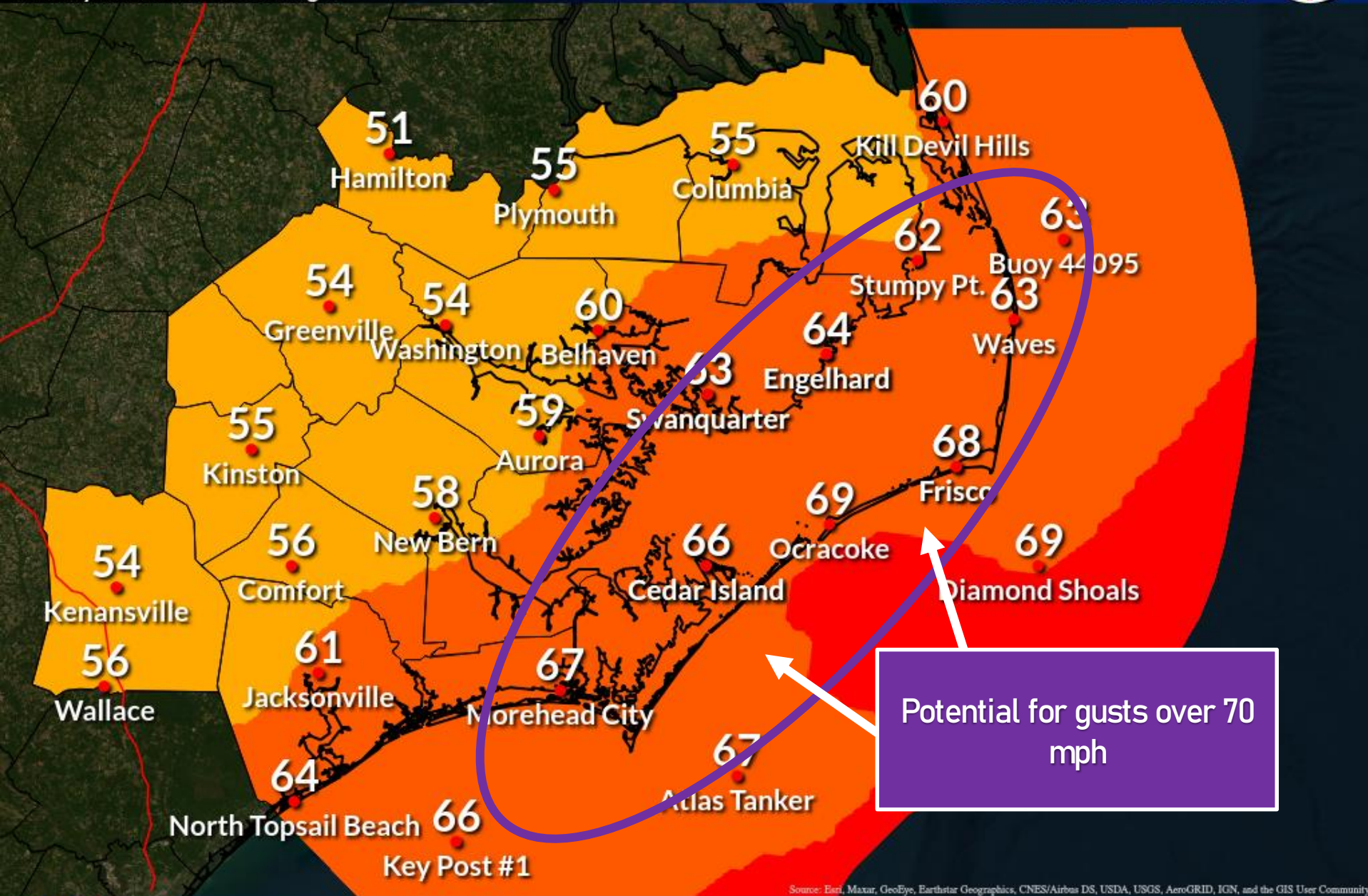
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Peak Wind Gusts (mph)

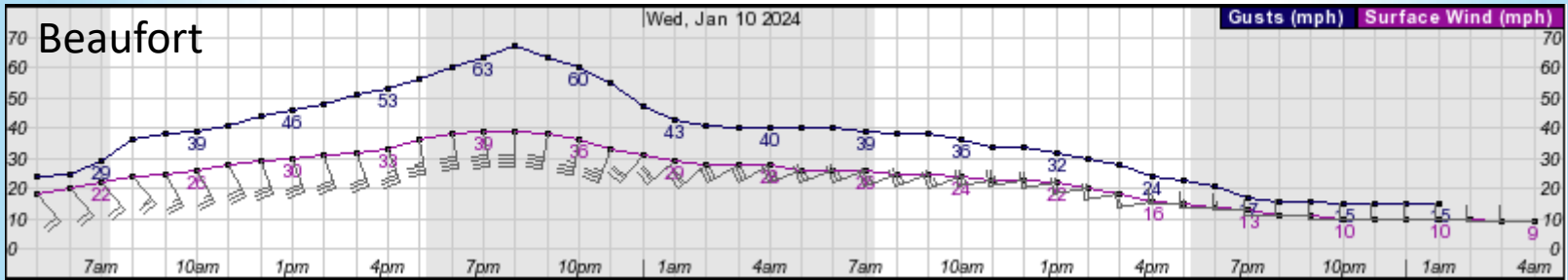
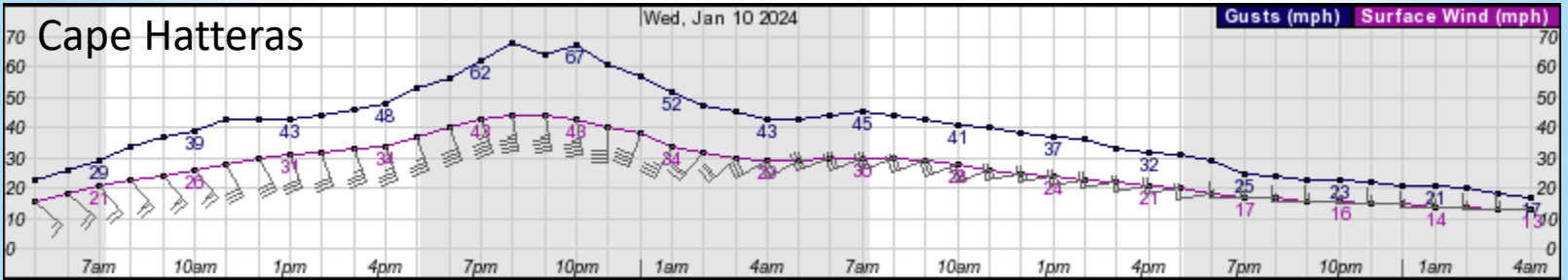
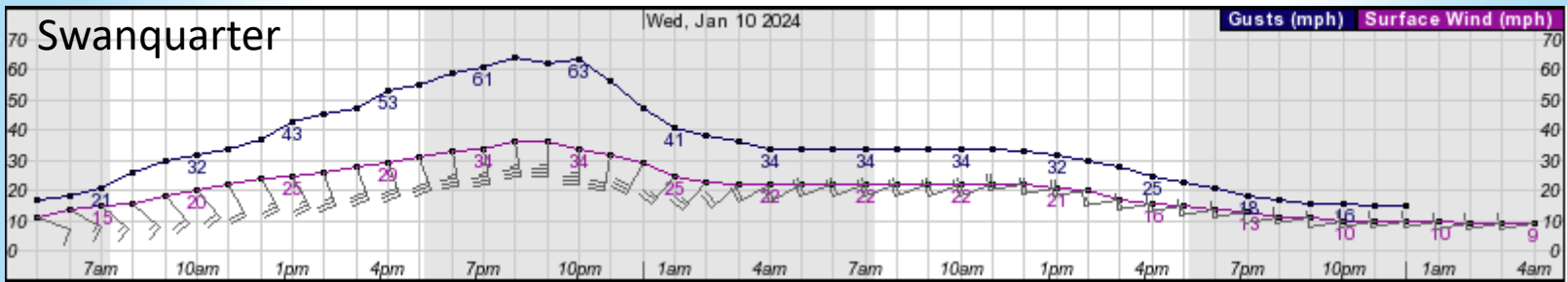
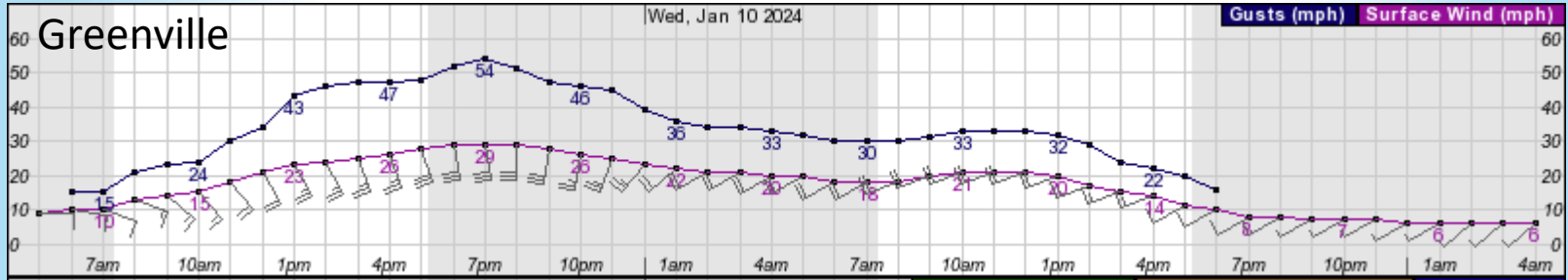
Tuesday Afternoon to Midnight

Weather Forecast Office
Newport/Morehead City, NC

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



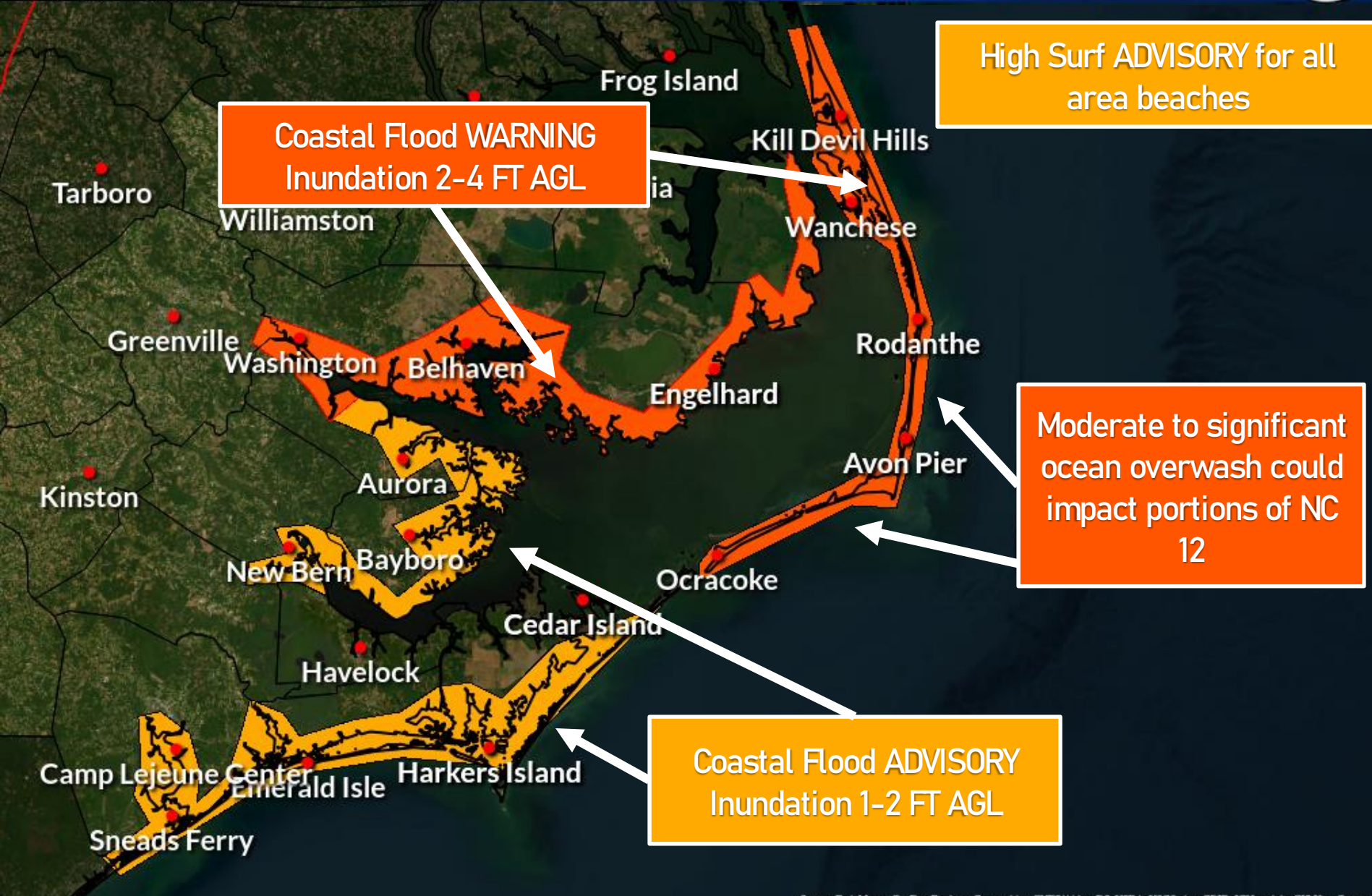
Coastal Flooding Threat

Weather Forecast Office
Newport/Morehead City, NC

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Valid Tues and Wed

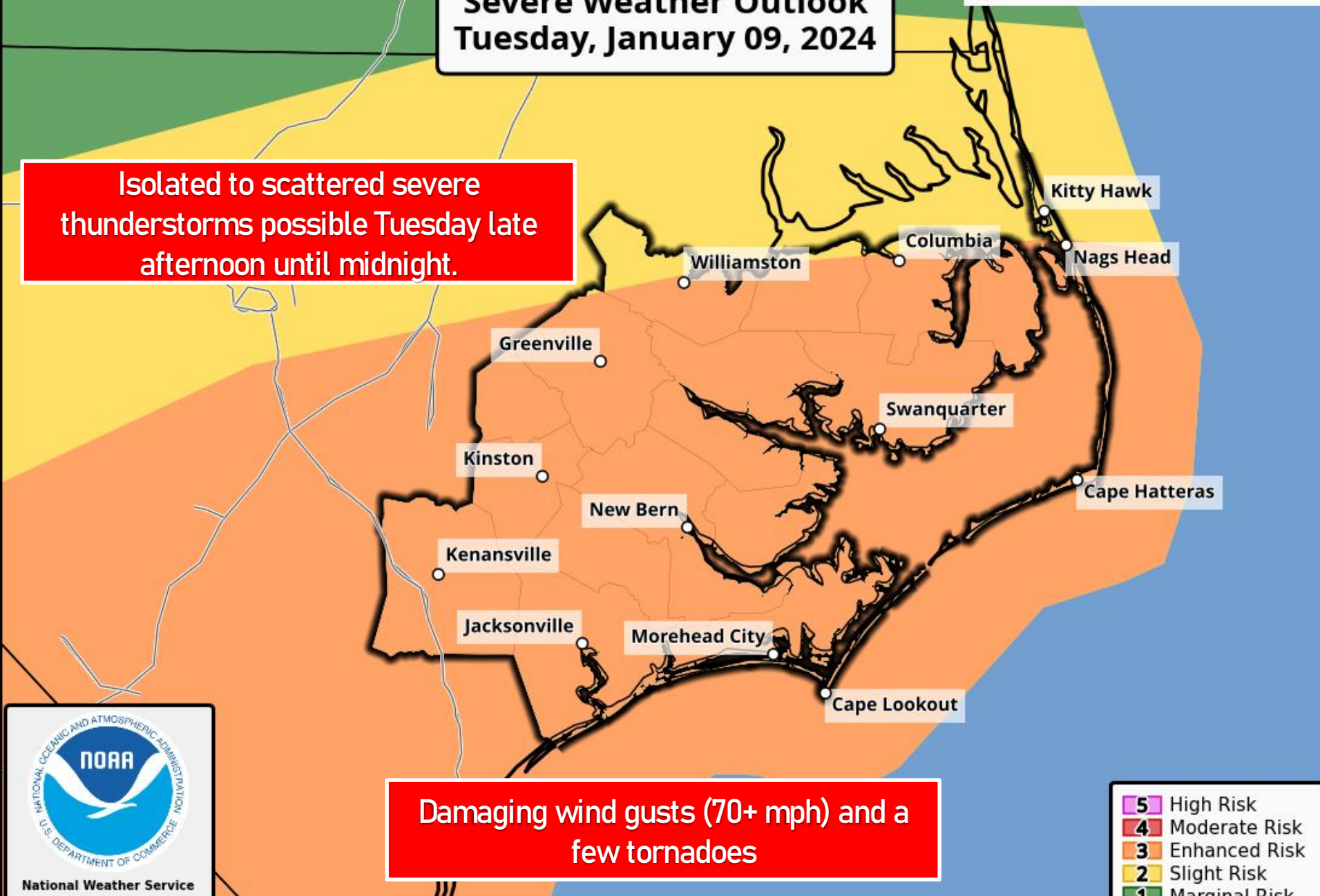


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Severe Weather Outlook Tuesday, January 09, 2024

Isolated to scattered severe thunderstorms possible Tuesday late afternoon until midnight.

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

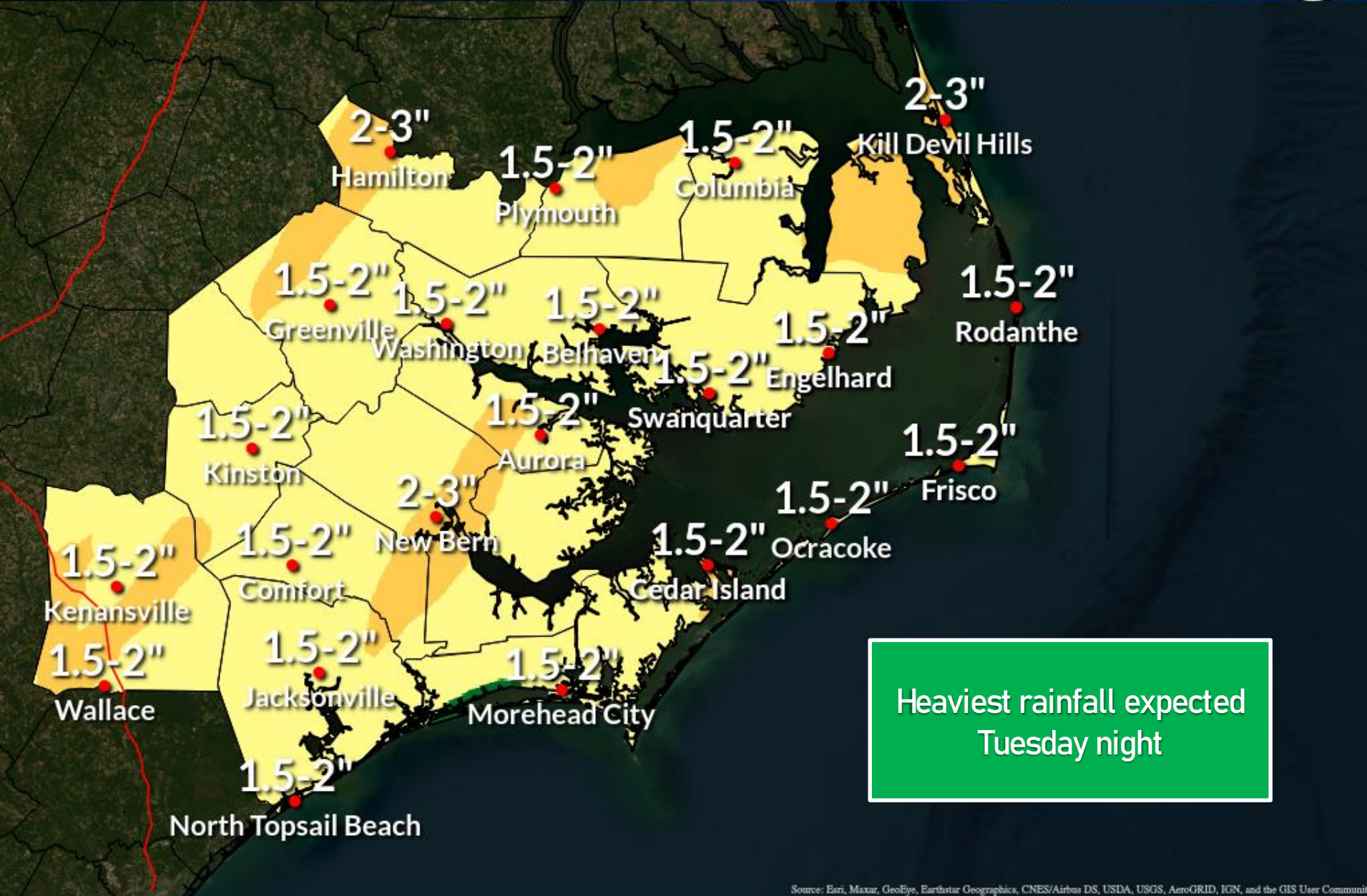
National Weather Service
Storm Prediction Center
<https://www.spc.noaa.gov>

Storm Total Rainfall

Tuesday into Wednesday

Weather Forecast Office
Newport/Morehead City, NC

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Heaviest rainfall expected
Tuesday night

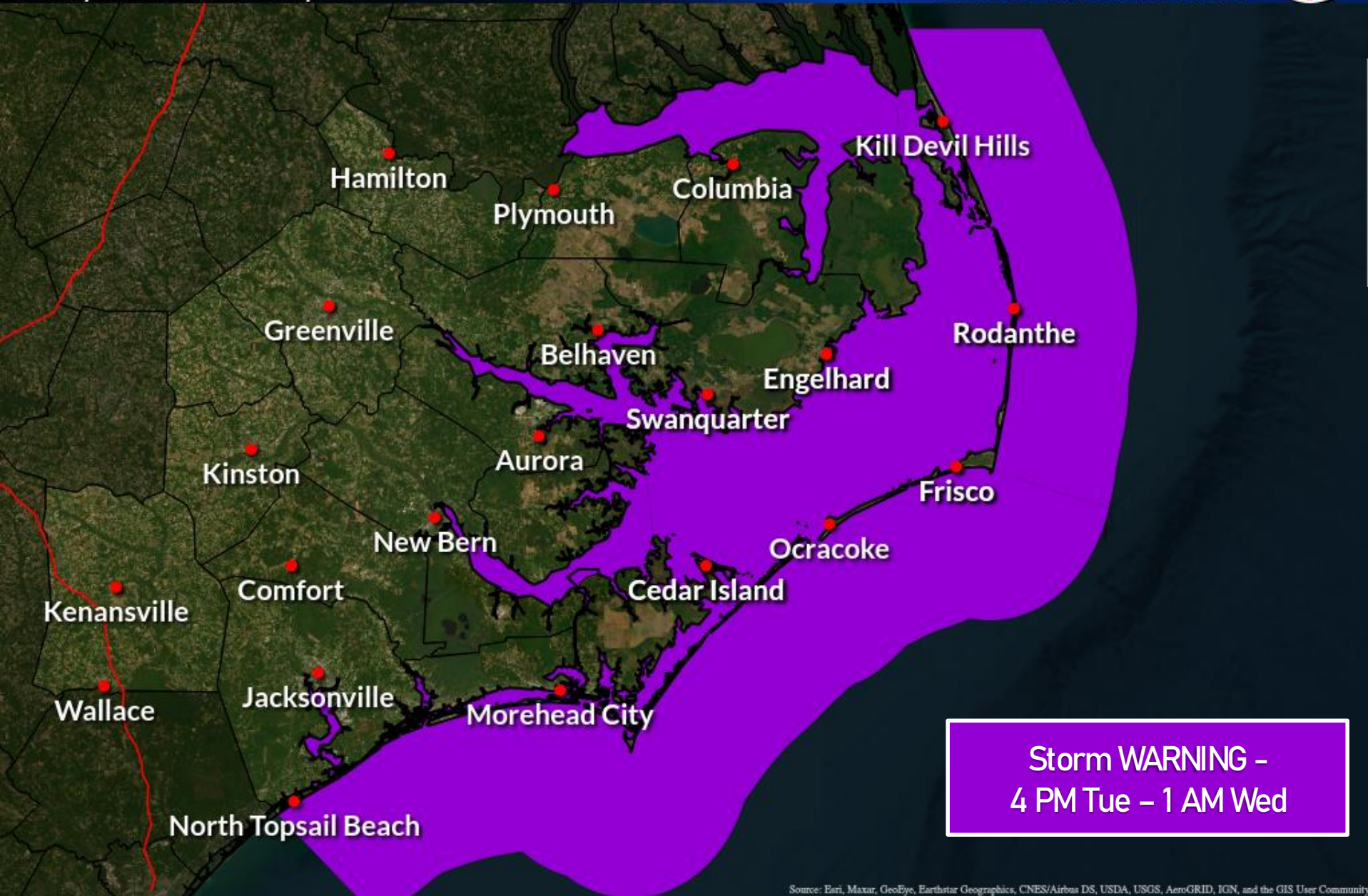
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Marine Headlines

Tuesday PM into Wednesday

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Newport/Morehead City, NC

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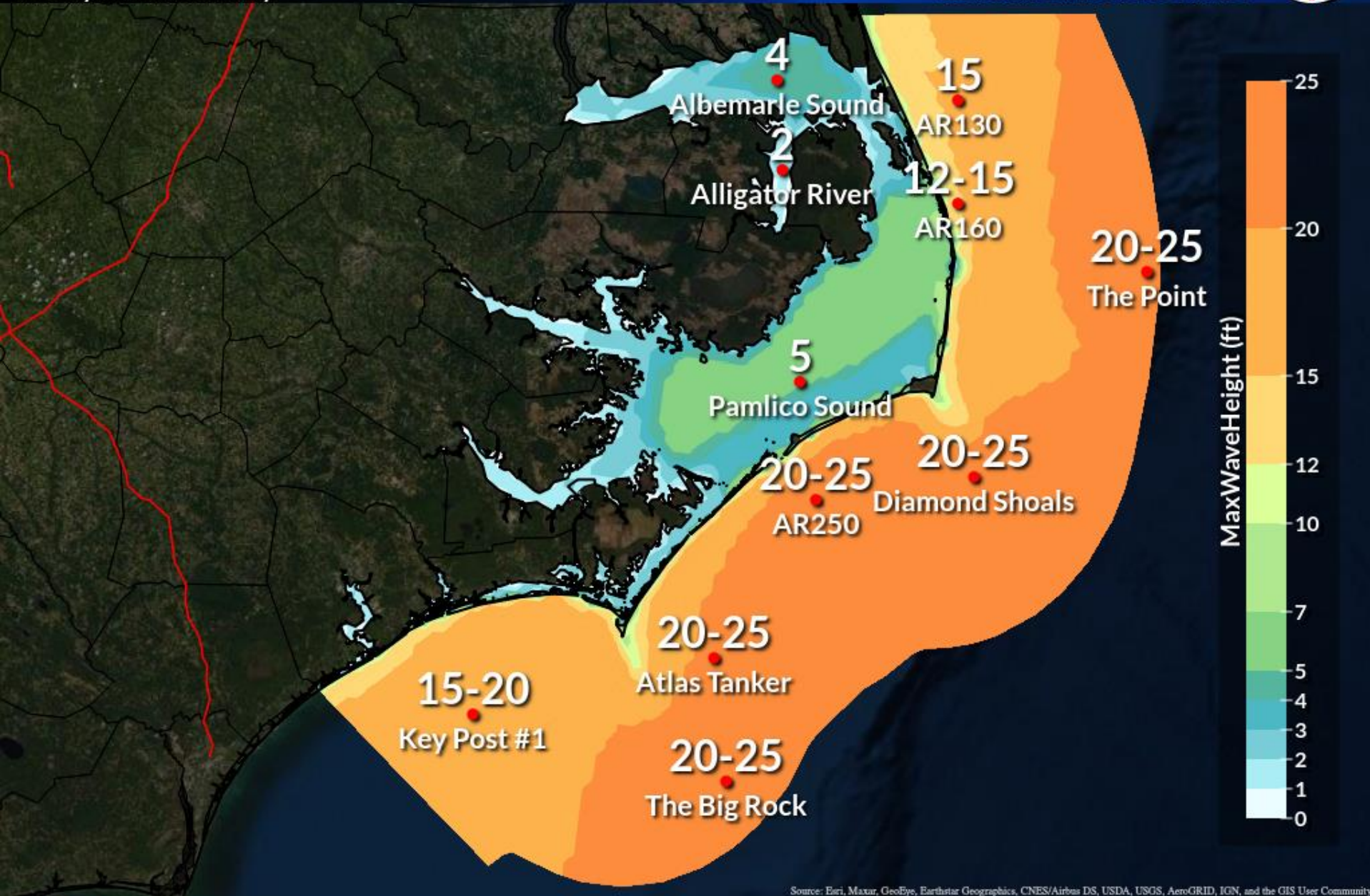
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Max Wave Height (ft.)

Tuesday into Wednesday

Weather Forecast Office
Newport/Morehead City, NC

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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: Strong winds will lead to an increased risk of damage to trees, power lines, and structures, as well as make for hazardous driving conditions for high-profile vehicles



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.



Severe Weather and Rainfall: Thunderstorms will lead to an enhanced risk of 70+ mph winds, with areas of enhanced wind damage possible. A tornado risk may develop as well. While less confident, a more substantial tornado risk cannot be ruled out.



Hazardous Marine Conditions: Dangerous seas 20-25 ft with Storm Force winds Tuesday and Wednesday. Dangerous surf conditions.

Contact and Next Briefing Information



The next briefing will be sent out by 9 AM Tuesday 1/9/2024

[Briefing Webpage](#)



Web:

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



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