

Strong Storm System to Bring Multiple Hazards this Week

Decision Support Briefing # 5
As of 7 AM Thu, December 22nd, 2022






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



What Has Changed?



- A Wind Advisory is now in effect for portions of the Outer Banks
- Gale Warnings are now in effect for all coastal and inland waters

Main Points

Hazard	Impacts	Location	Timing
Coastal Flooding 	<p>Minor to moderate impacts with water levels 2-4 ft. above ground. Flooding of low lying roadways, parking lots, and properties. Minor ocean overwash possible. Travel impacts possible along NC 12 and properties immediately adjacent to the beach.</p>	<p><u><i>Soundside Locations from Kitty Hawk to Hatteras Island, including Roanoke Island</i></u></p> <p>Minor to moderate inundation</p> <p><u><i>Entire Coast</i></u></p> <p>Minor ocean overwash</p>	<p>Through Saturday</p>
Low Water Levels 	<p>Strong west to southwest winds may cause below average water levels along the western shores of the Pamlico Sound</p>	<p>Neuse, Pamlico, Pungo, and Bay Rivers</p>	<p>Friday and Saturday</p>
Cold Weather 	<p>Hazardous conditions for those outdoors. Damage to pipes possible. Increased impact for those who lose power.</p>	<p>All of Eastern North Carolina</p>	<p>Friday night into Sunday morning</p>
Wind 	<p>Scattered power outages and tree damage.</p>	<p>All of eastern NC susceptible; strongest winds along the Outer Banks.</p>	<p>Friday</p>
Marine 	<p>Dangerous seas and strong, Gale force winds. Storm Force gusts possible.</p>	<p>All coastal waters, sounds, and rivers.</p>	<p>Through Saturday morning</p>



Main Points

Hazard	Impacts	Location	Timing
Severe Weather 	<p>A few strong to marginally severe thunderstorms possible, capable of damaging winds</p>	<p>Greatest risk from the Crystal Coast northeast through Hatteras Island</p>	<p>11 AM – 8 PM Today</p>
Heavy Rainfall 	<p>Ponding of water in low-lying and poor drainage areas. Isolated instances of flash flooding possible</p>	<p>Greatest risk from the Crystal Coast north through the Northern Outer Banks</p>	<p>11 AM – 8 PM Today</p>

Summary of Greatest Impacts



Coastal Flooding: See Maps to Follow



Low Water Levels: See Maps to Follow



Cold Temperatures: All of Eastern NC



Strong Winds: All of Eastern NC



Marine Impacts: All Marine Areas



Summary of Greatest Impacts



Severe Weather: See Maps to Follow



Heavy Rain: See Maps to Follow



Coastal Flooding

Friday into early Saturday Morning

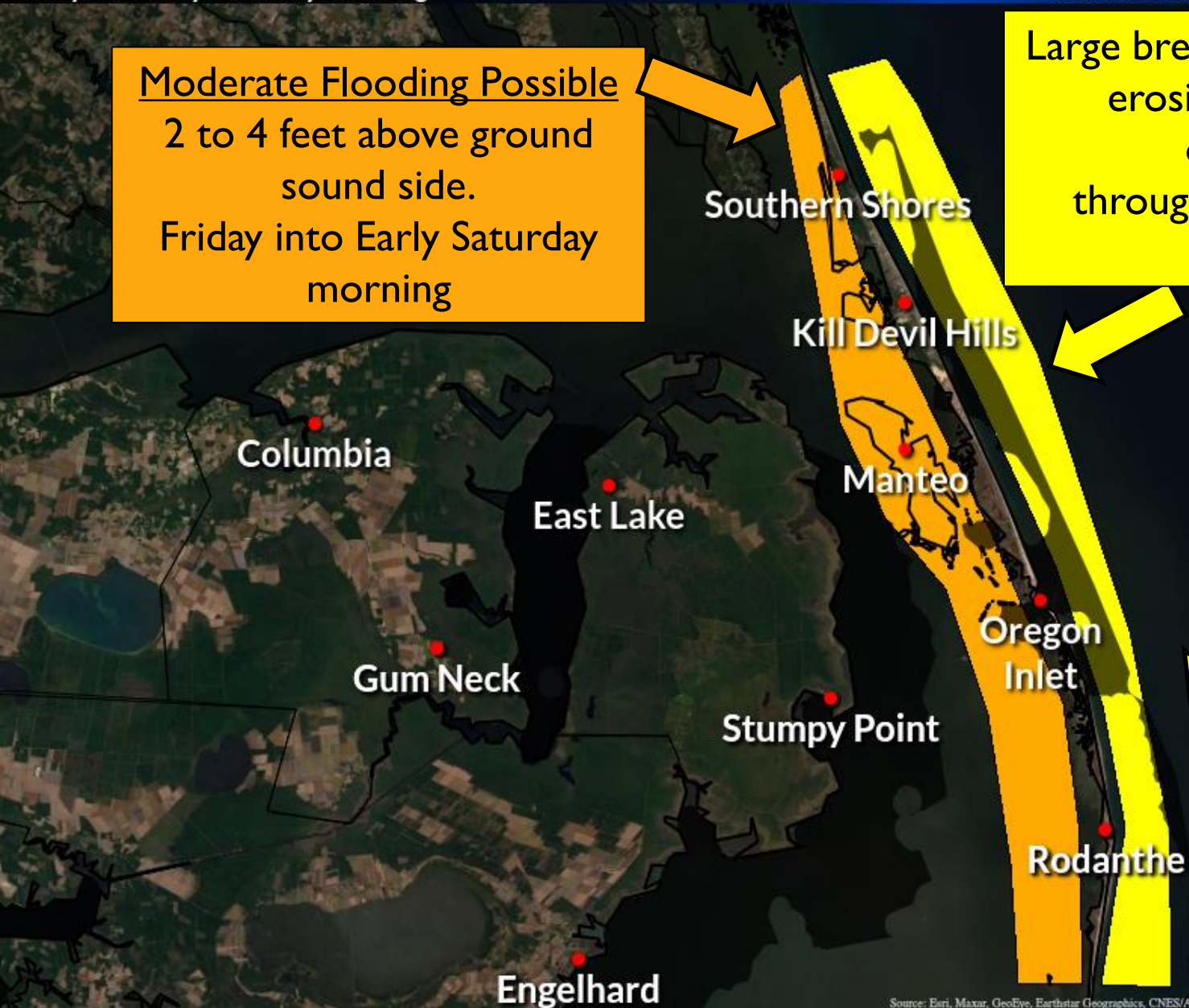
Weather Forecast Office
Newport/Morehead City, NC

Issued Dec 22, 2022 5:48 AM EST



Moderate Flooding Possible
2 to 4 feet above ground
sound side.
Friday into Early Saturday
morning

Large breaking waves, beach
erosion and minor
overwash
through early Saturday
morning



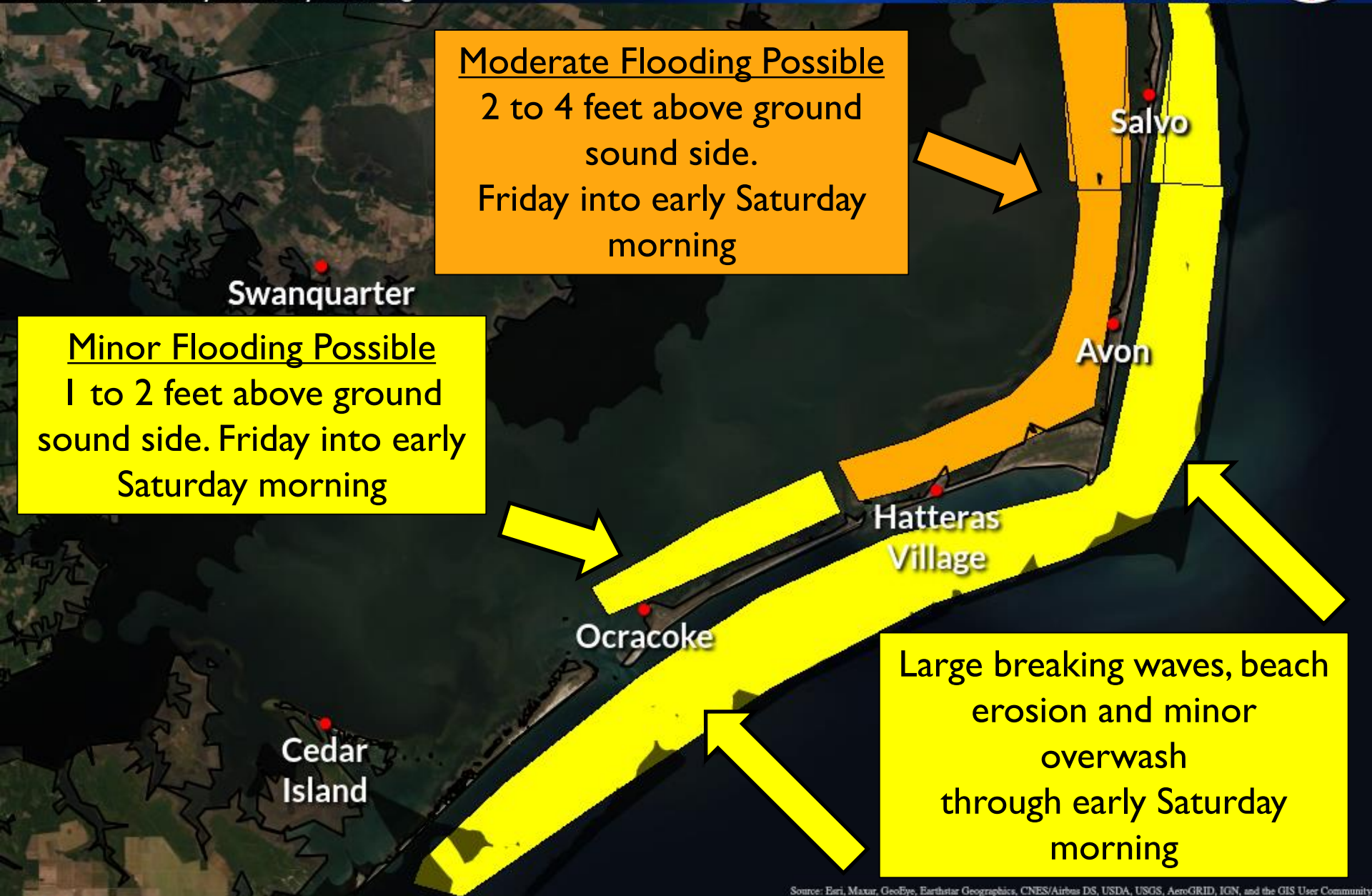
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Coastal Flooding

Thursday into early Saturday Morning

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

Coastal Flooding

Thursday into early Saturday Morning

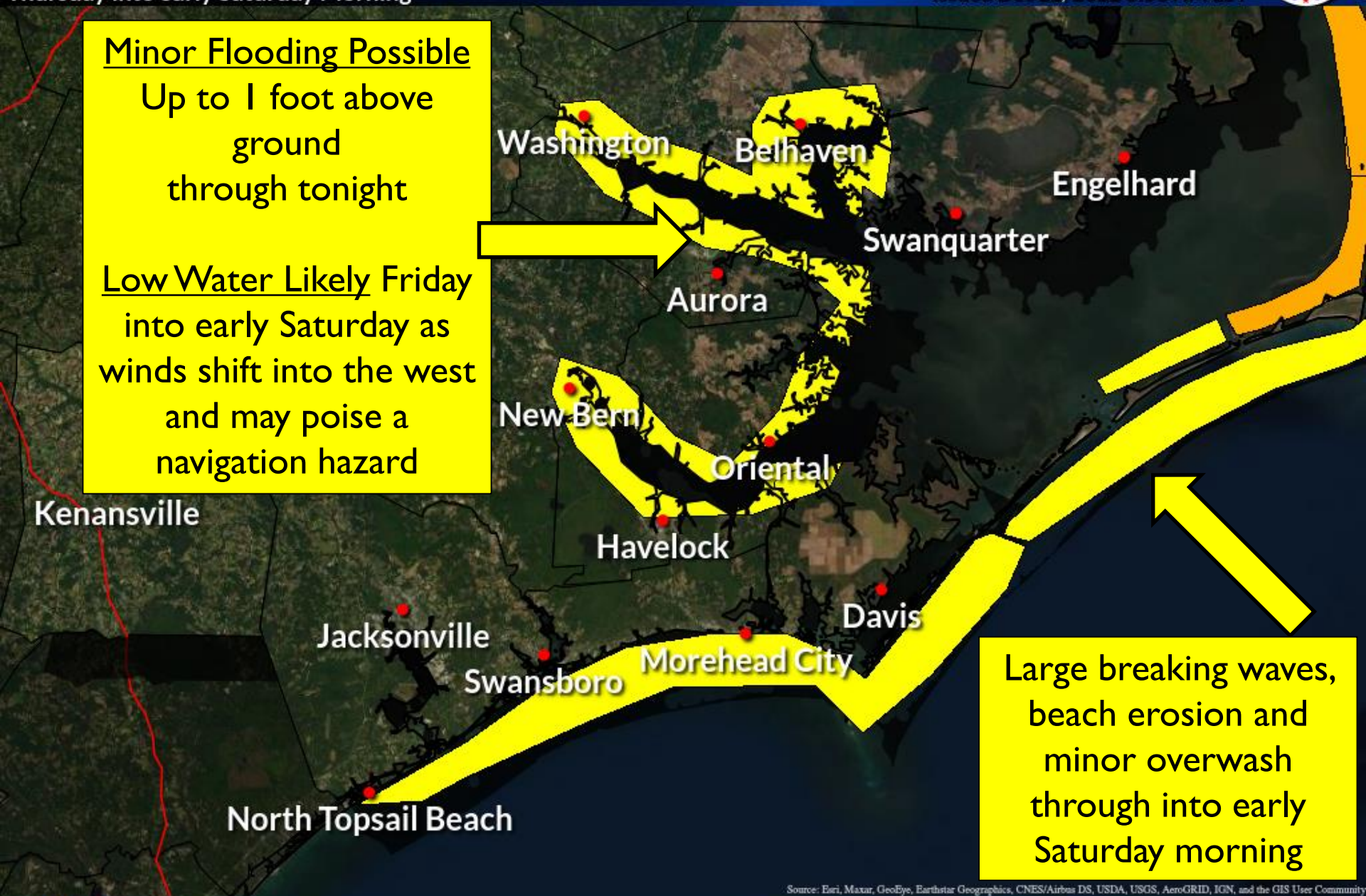
Weather Forecast Office
Newport/Morehead City, NC

Issued Dec 22, 2022 5:53 AM EST



Minor Flooding Possible
Up to 1 foot above
ground
through tonight

Low Water Likely Friday
into early Saturday as
winds shift into the west
and may pose a
navigation hazard



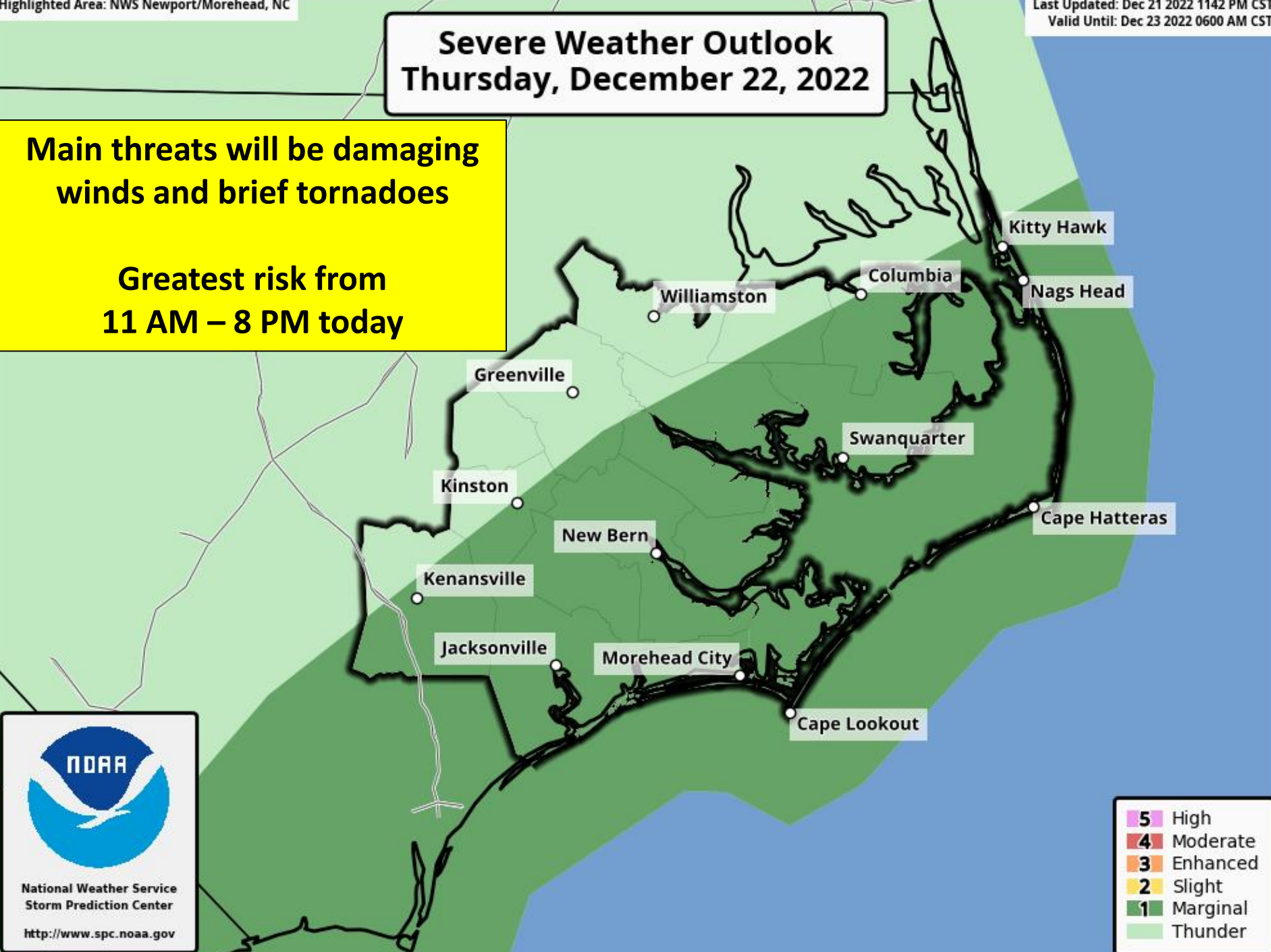
Large breaking waves,
beach erosion and
minor overwash
through into early
Saturday morning

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

Severe Weather Outlook Thursday, December 22, 2022

Main threats will be damaging winds and brief tornadoes

Greatest risk from 11 AM – 8 PM today



Williamston

Columbia

Kitty Hawk

Nags Head

Greenville

Swanquarter

Cape Hatteras

Kinston

New Bern

Kenansville

Jacksonville

Morehead City



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

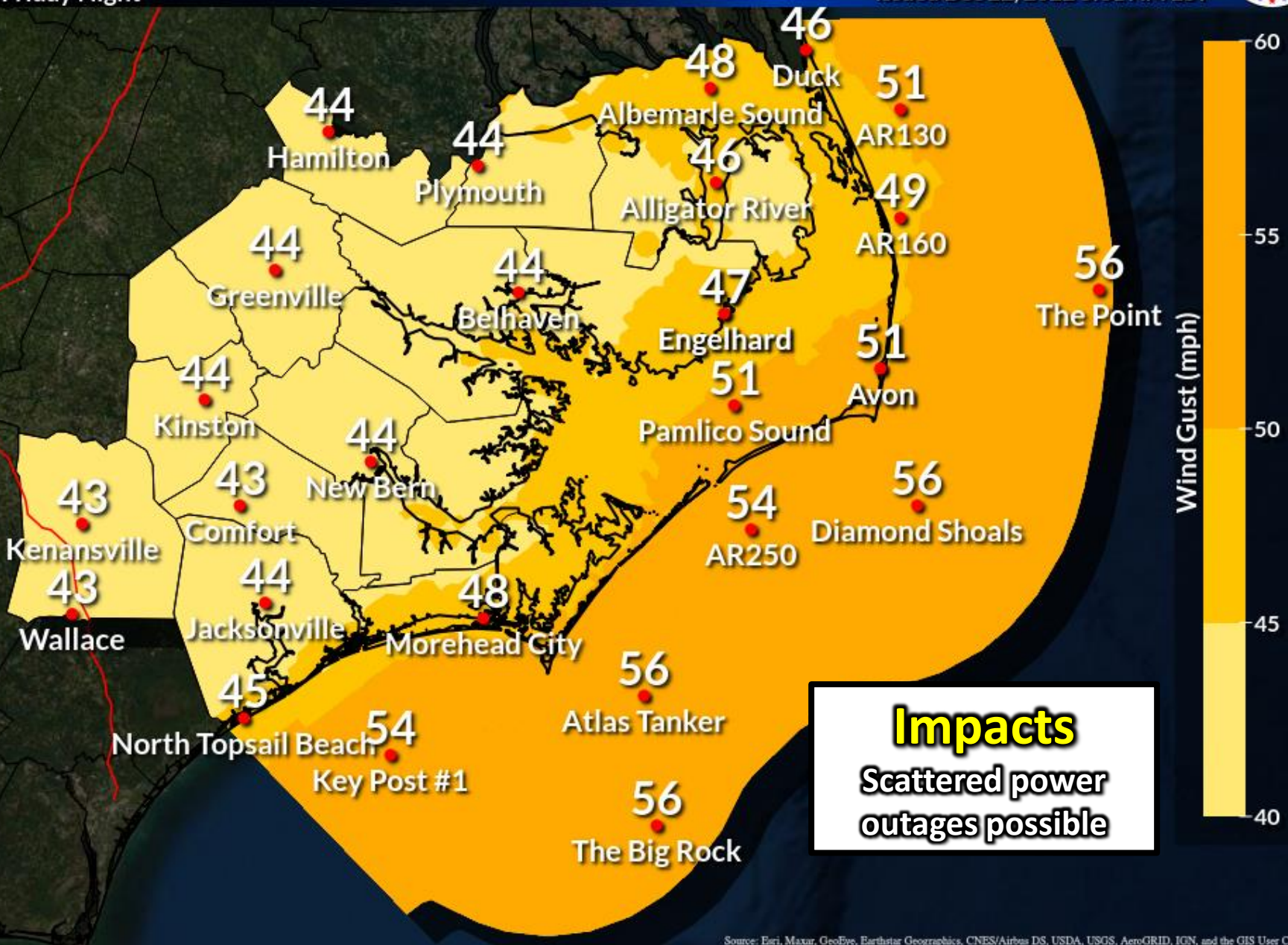
- 5 High
- 4 Moderate
- 3 Enhanced
- 2 Slight
- 1 Marginal
- Thunder

Maximum Wind Gusts

Through Friday Night

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Newport/Morehead City, NC

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Impacts
Scattered power outages possible

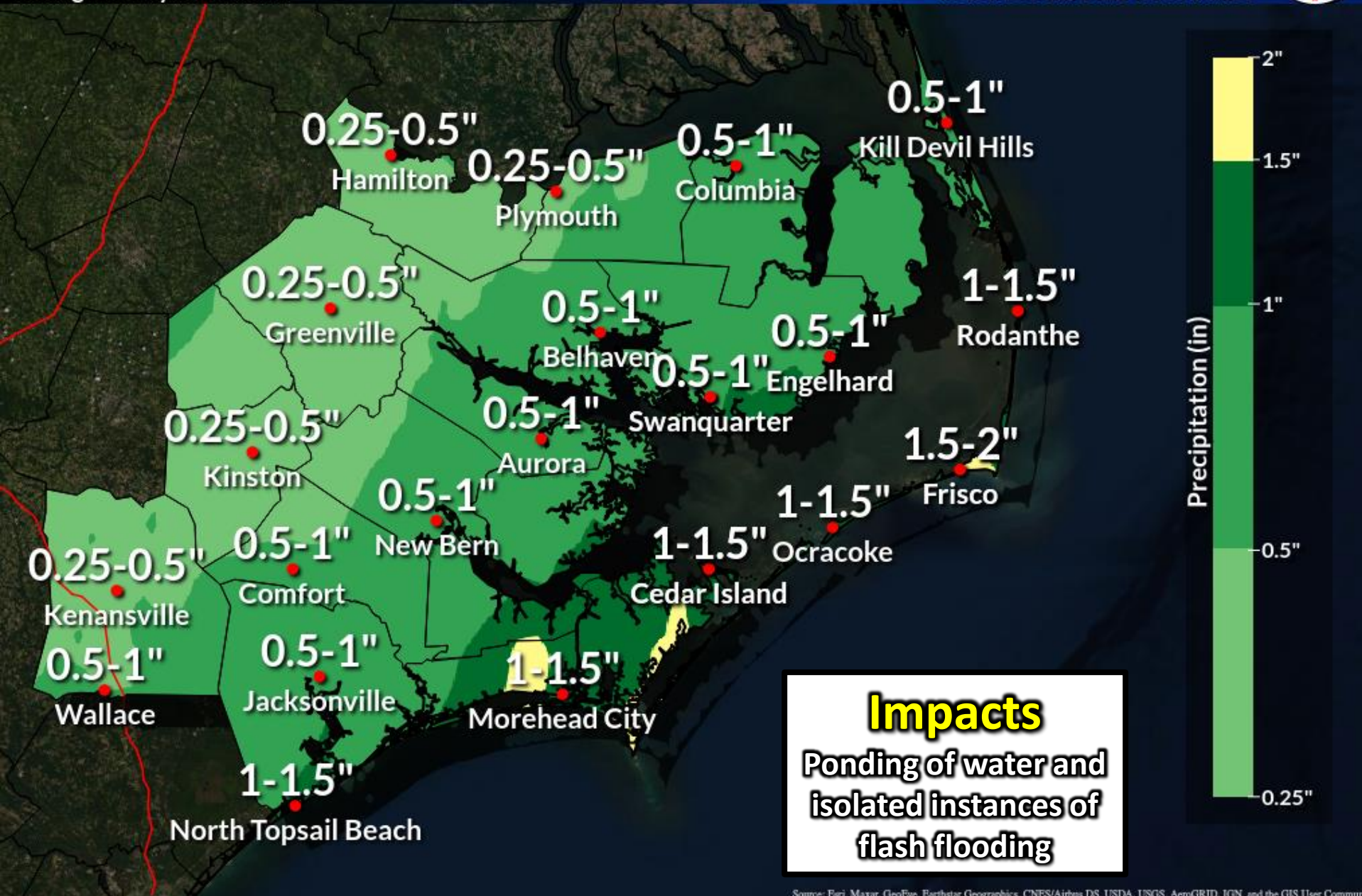
Source: Eri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Total Rainfall

Through Friday Afternoon

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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

Maximum Wave Heights

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Newport/Morehead City, NC

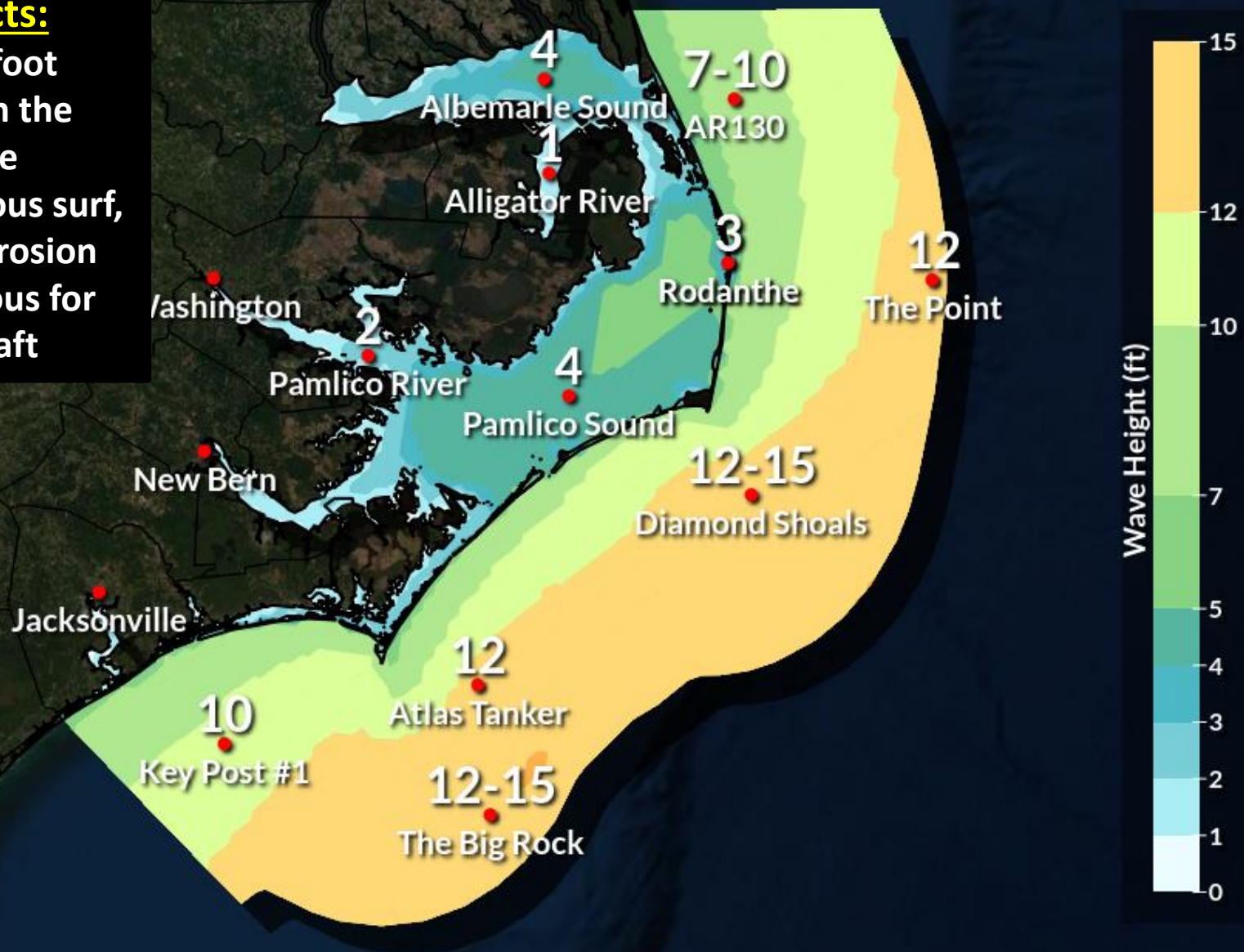
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Friday

Impacts:

- 7 to 11 foot waves in the surf zone
- Dangerous surf, beach erosion
- Hazardous for small craft



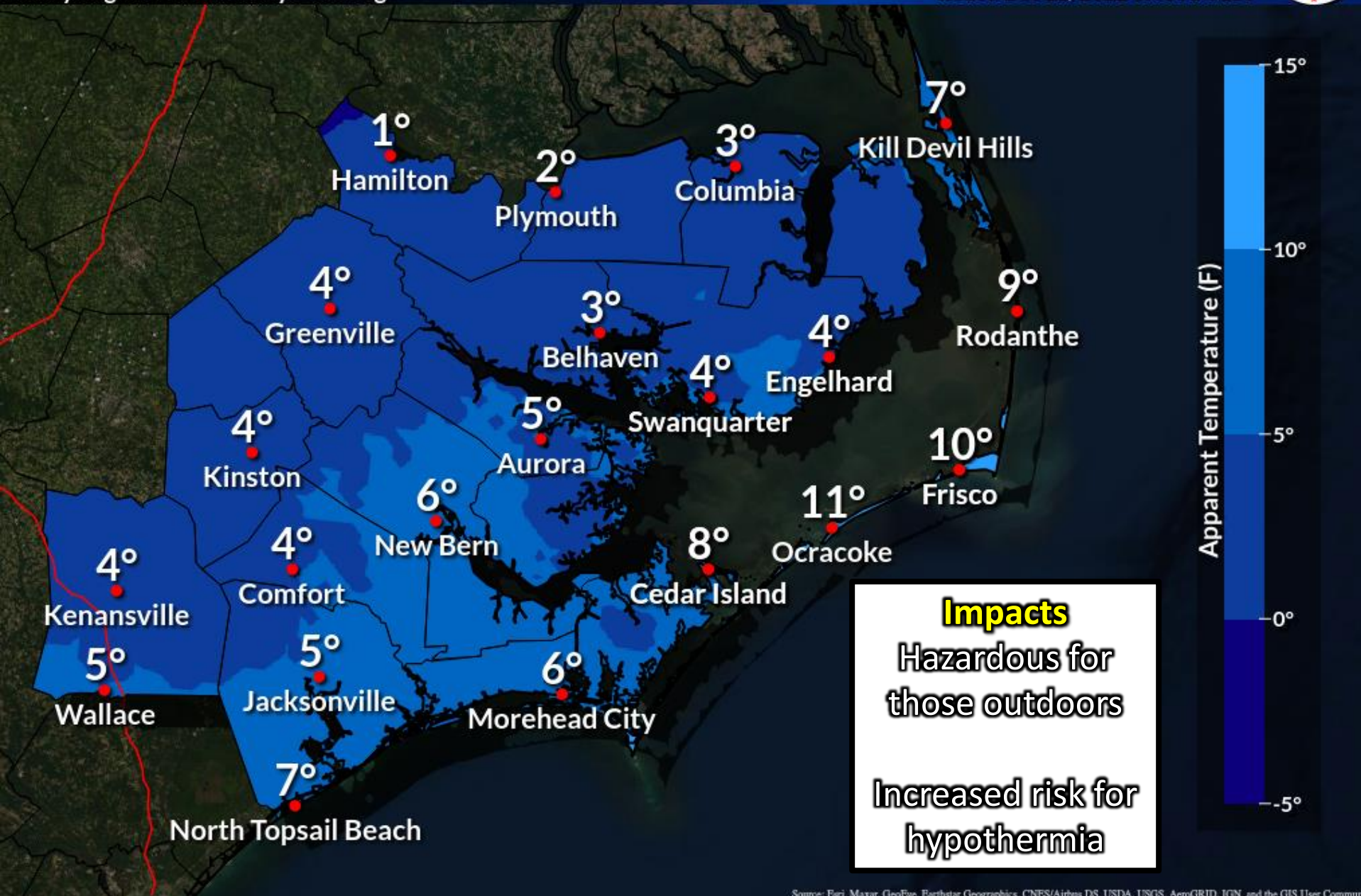
Source: Eri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Minimum Wind Chills

Friday Night into Saturday Morning

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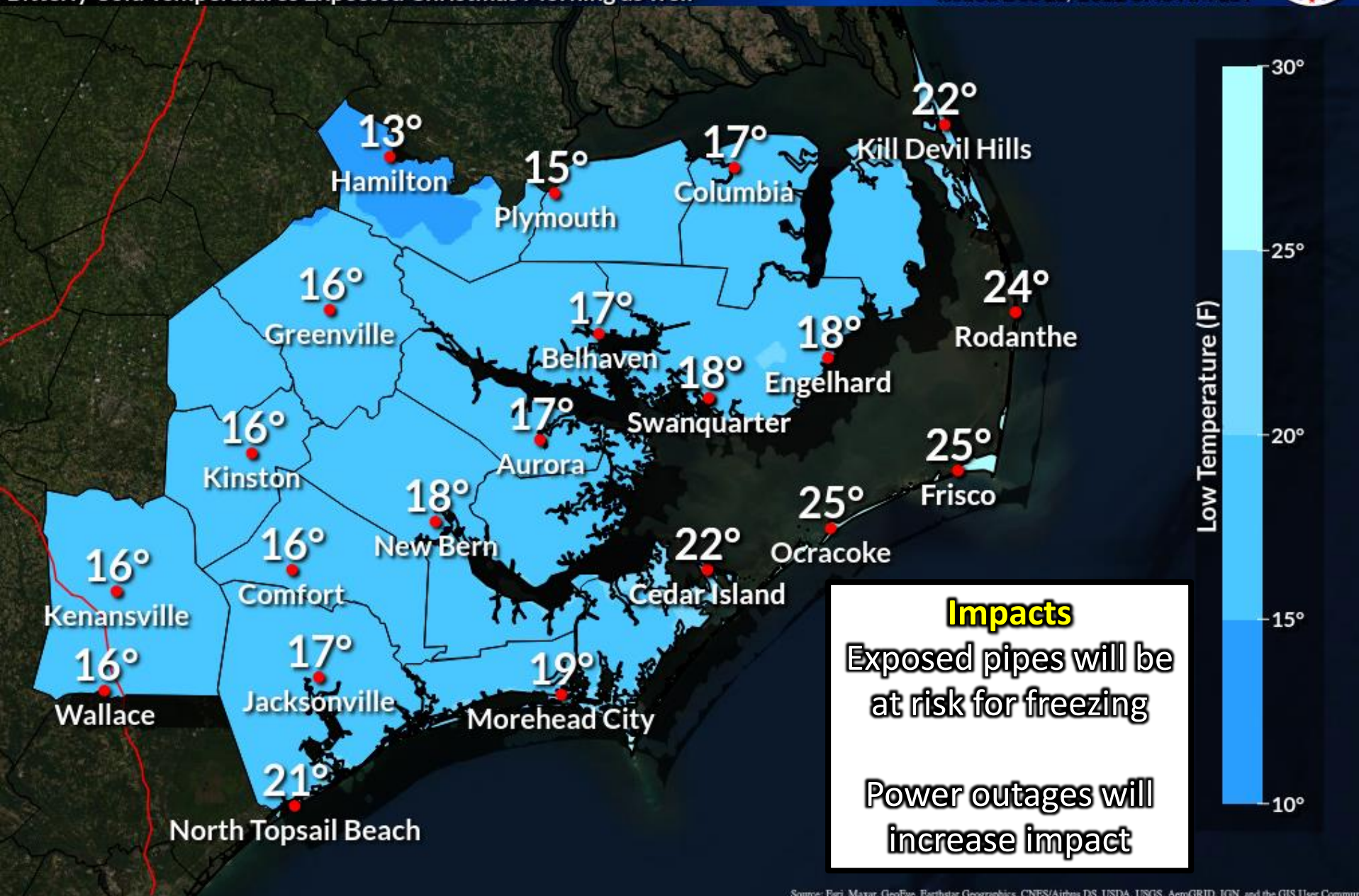
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Low Temperatures Friday Night into Saturday Morning

Bitterly Cold Temperatures Expected Christmas Morning as well

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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 **minor to moderate** impacts

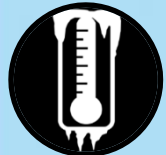


Coastal Flooding: Minor to moderate impacts adjacent to the eastern Pamlico, Croaton and Roanoke Sounds, and Roanoke Island. Very low-lying roads and properties flooded.

Ocean Overwash: Minor overwash possible, large breaking waves, beach erosion. Portions of Hwy 12 could be impacted, especially around high tides.



Low Water Levels: Below normal water levels could impact marine traffic along the Neuse, Bay, Pamlico, and Pungo Rivers.



Cold Weather: Dangerously cold temperatures for those outdoors, and possible damage to pipes. There will be an increased impact for any location where power outages occur.



Strong Winds: Wind gusts 40 to 55 mph area wide (highest along the coast) could bring scattered power outages and damage outdoor items.



Very Dangerous Marine Conditions: Seas 10-15 ft and strong Gale Force winds with occasional gusts to Storm Force possible. Powerful surf and minor erosion at the beaches.

Event Summary

✓ Confidence is **HIGH** that this event will occur, and we are expecting **minor to moderate** impacts



Severe Weather: Strong damaging winds and isolated, brief tornadoes in thunderstorms could lead to downed trees and power lines. Primary threat is expected this afternoon from the Crystal Coast through Hatteras Island.



Heavy Rainfall: Rainfall totals 1-2 inches, with isolated higher amounts could bring localized flash flooding

Contact and Next Briefing Information



Next Briefing can be expected by 6 PM Thursday

[Briefing Webpage](#)



Web:

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



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