

Strong Storm System to Bring Multiple Hazards this Week

Decision Support Briefing # 4
As of 4 PM Wed, December 21st, 2022






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



What Has Changed?



- Added multiple detailed coastal flood graphics
- No big changes with this update

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>Friday and 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.</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>Most coastal waters, sounds, and rivers.</p>	<p>Thursday night into 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 east of Highway 11</p>	<p>Thursday</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>Thursday</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

Minor to Moderate Coastal Flooding Possible

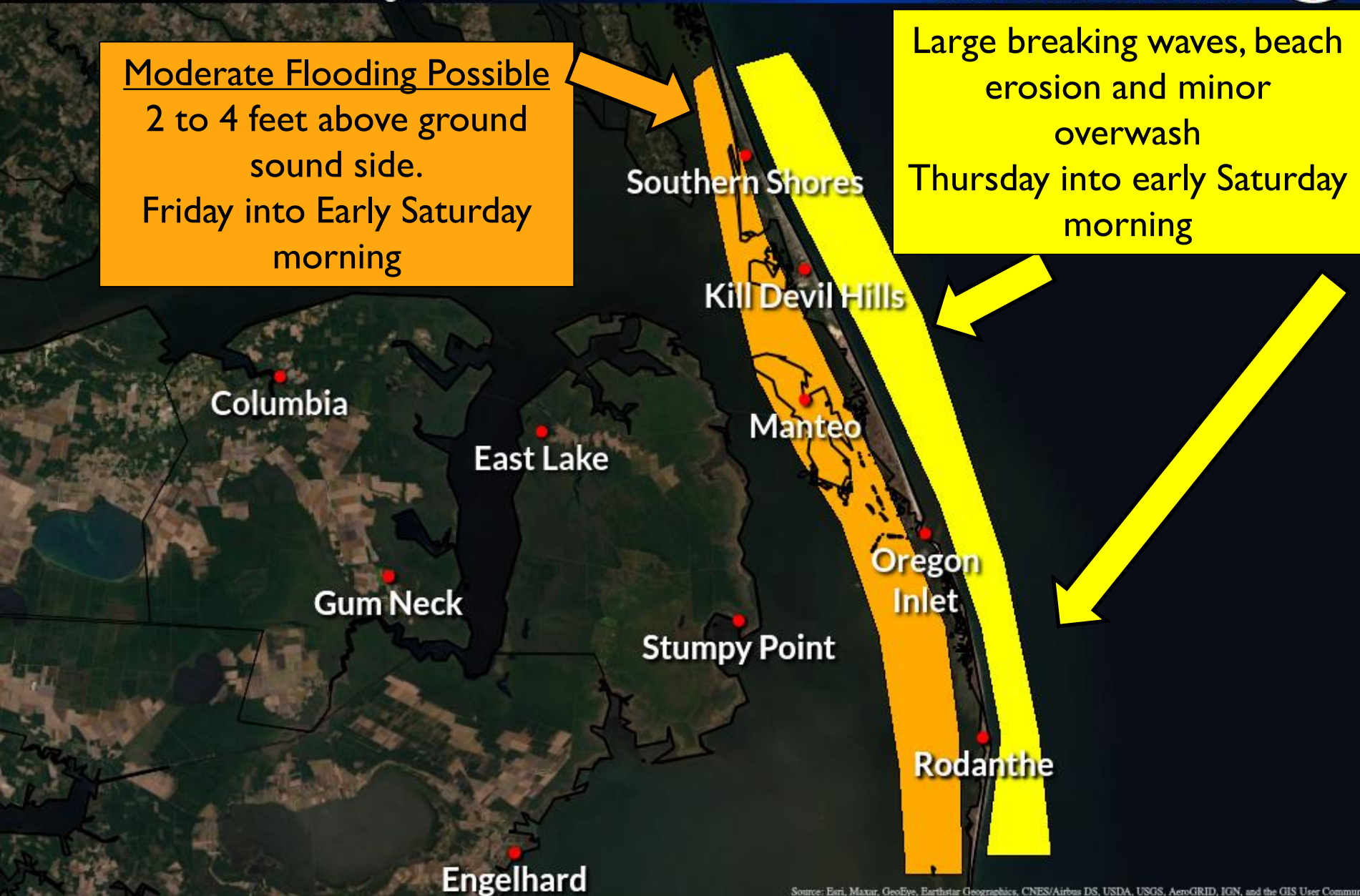
Weather Forecast Office
Newport/Morehead City, NC

Issued Dec 21, 2022 3:29 PM 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
Thursday into early Saturday
morning



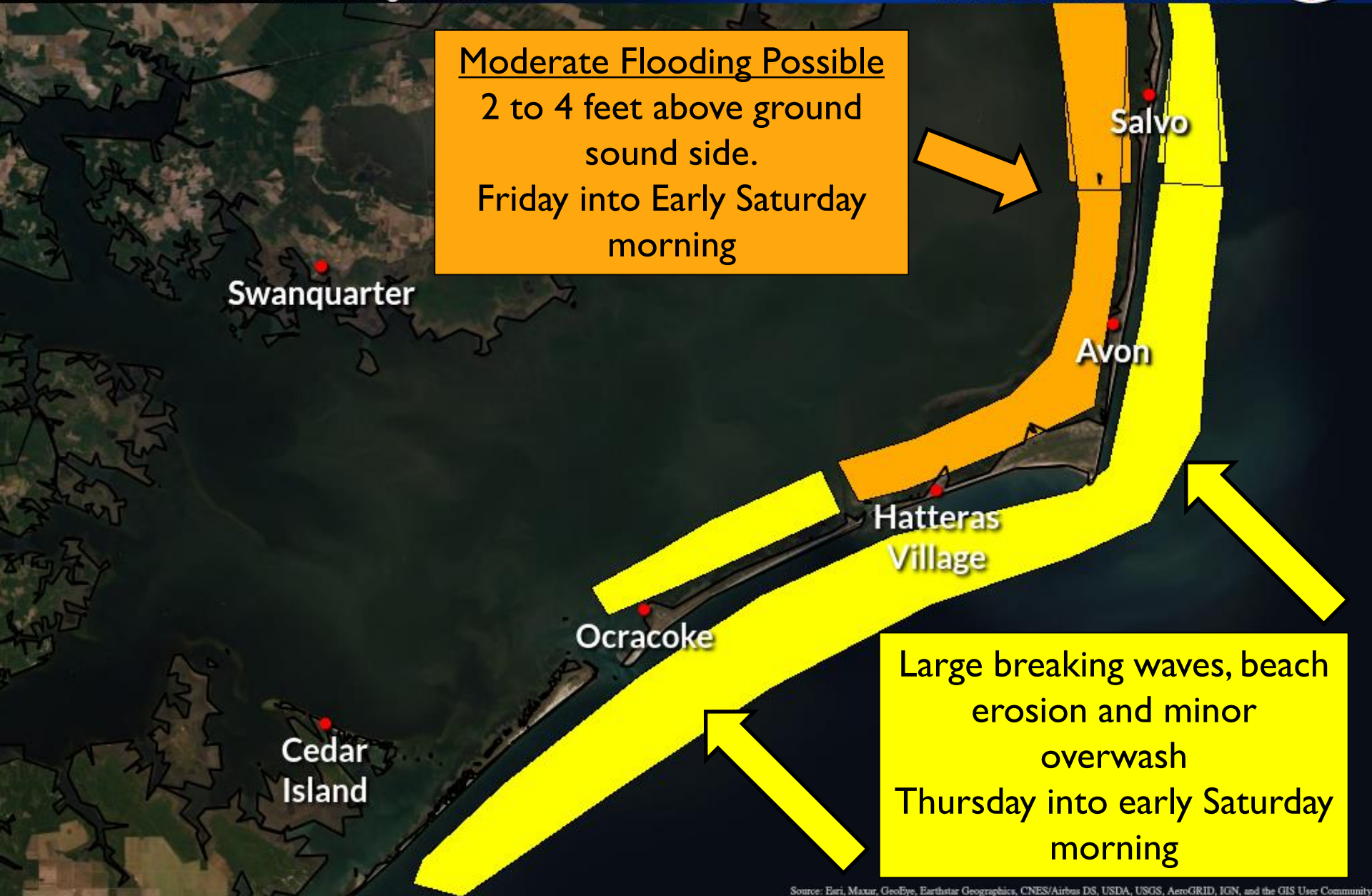
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Coastal Flooding

Minor To Moderate Coastal Flooding Possible

Weather Forecast Office
Newport/Morehead City, NC

Issued Dec 21, 2022 3:30 PM 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
Thursday into early Saturday
morning

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

Coastal Flooding

Minor To Moderate Coastal Flooding Possible

Weather Forecast Office
Newport/Morehead City, NC

Issued Dec 21, 2022 3:30 PM EST



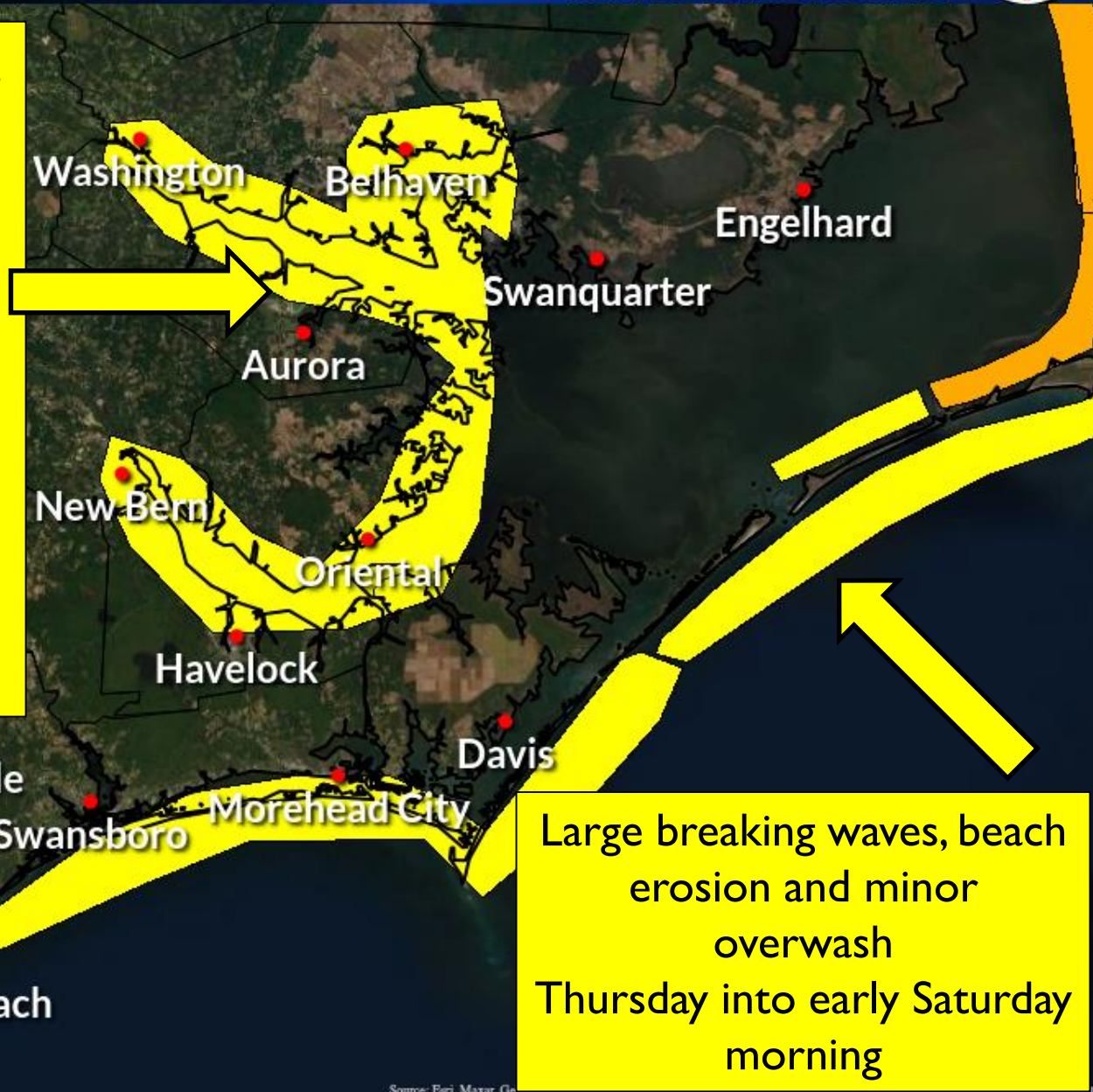
Minor Flooding Possible

Up to 1 foot above
ground

Tonight through
Thursday Night

LOW Water Likely

Friday into early
Saturday as winds shift
into the west and may
poise a navigation
hazard

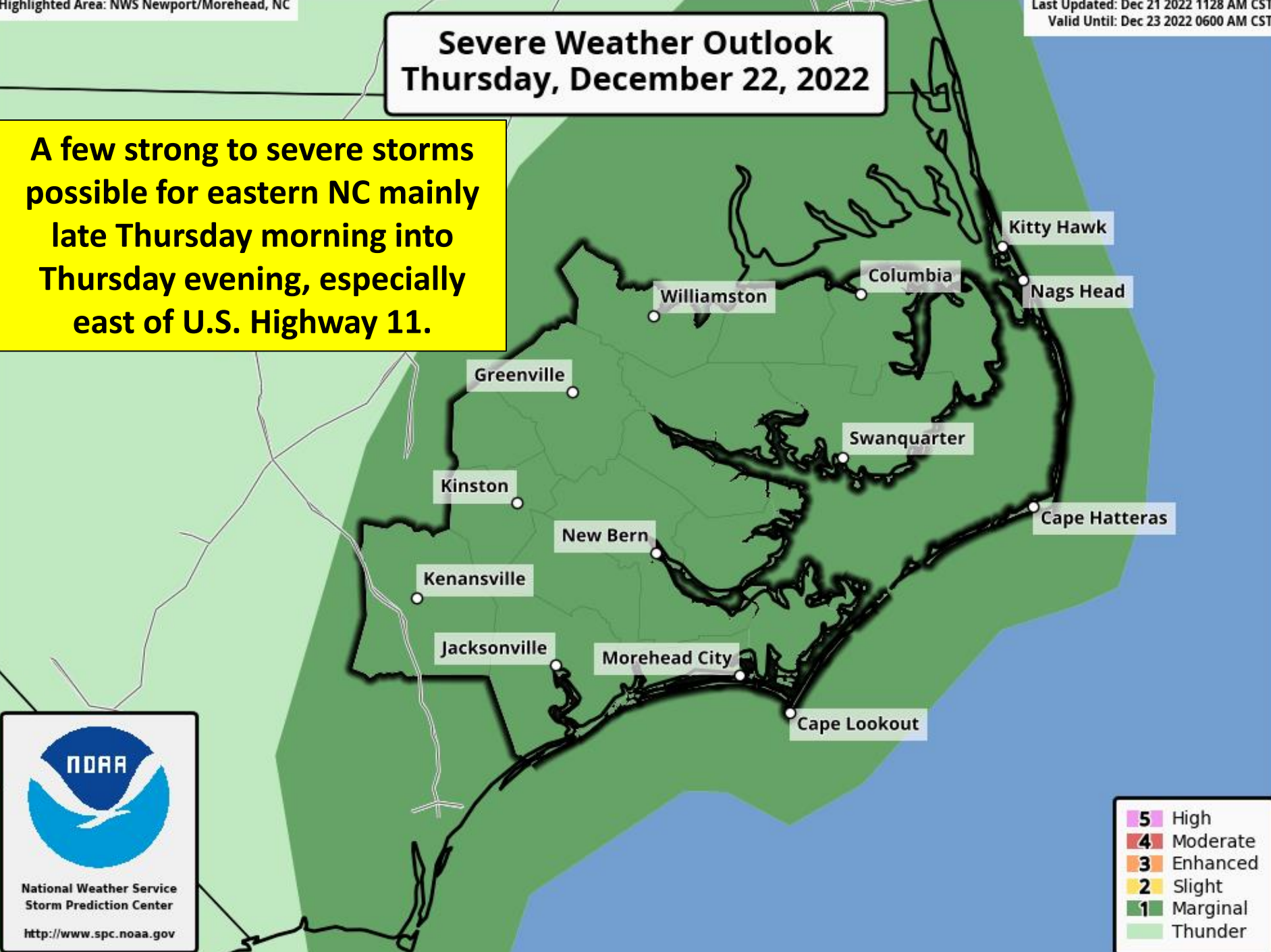


Large breaking waves, beach
erosion and minor
overwash
Thursday into early Saturday
morning

Source: Esri, Maxar, GeoEye

Severe Weather Outlook Thursday, December 22, 2022

A few strong to severe storms possible for eastern NC mainly late Thursday morning into Thursday evening, especially east of U.S. Highway 11.



5	High
4	Moderate
3	Enhanced
2	Slight
1	Marginal
	Thunder



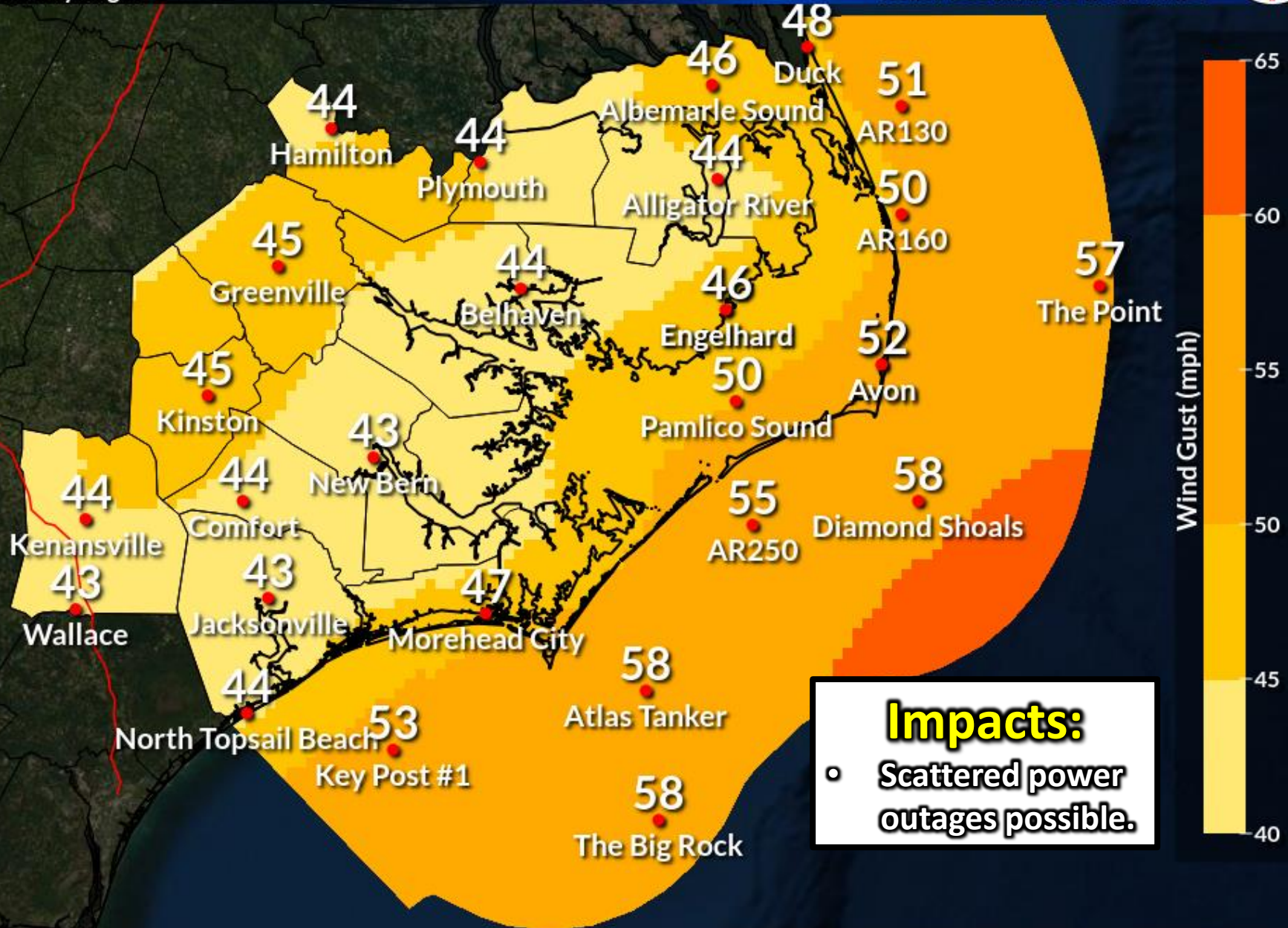
NWS
National Weather Service
Storm Prediction Center
<http://www.spc.noaa.gov>

Maximum Wind Gusts

Through Friday Night

Weather Forecast Office
Newport/Morehead City, NC

Issued Dec 21, 2022 2:41 PM EST



Impacts:
• Scattered power outages possible.

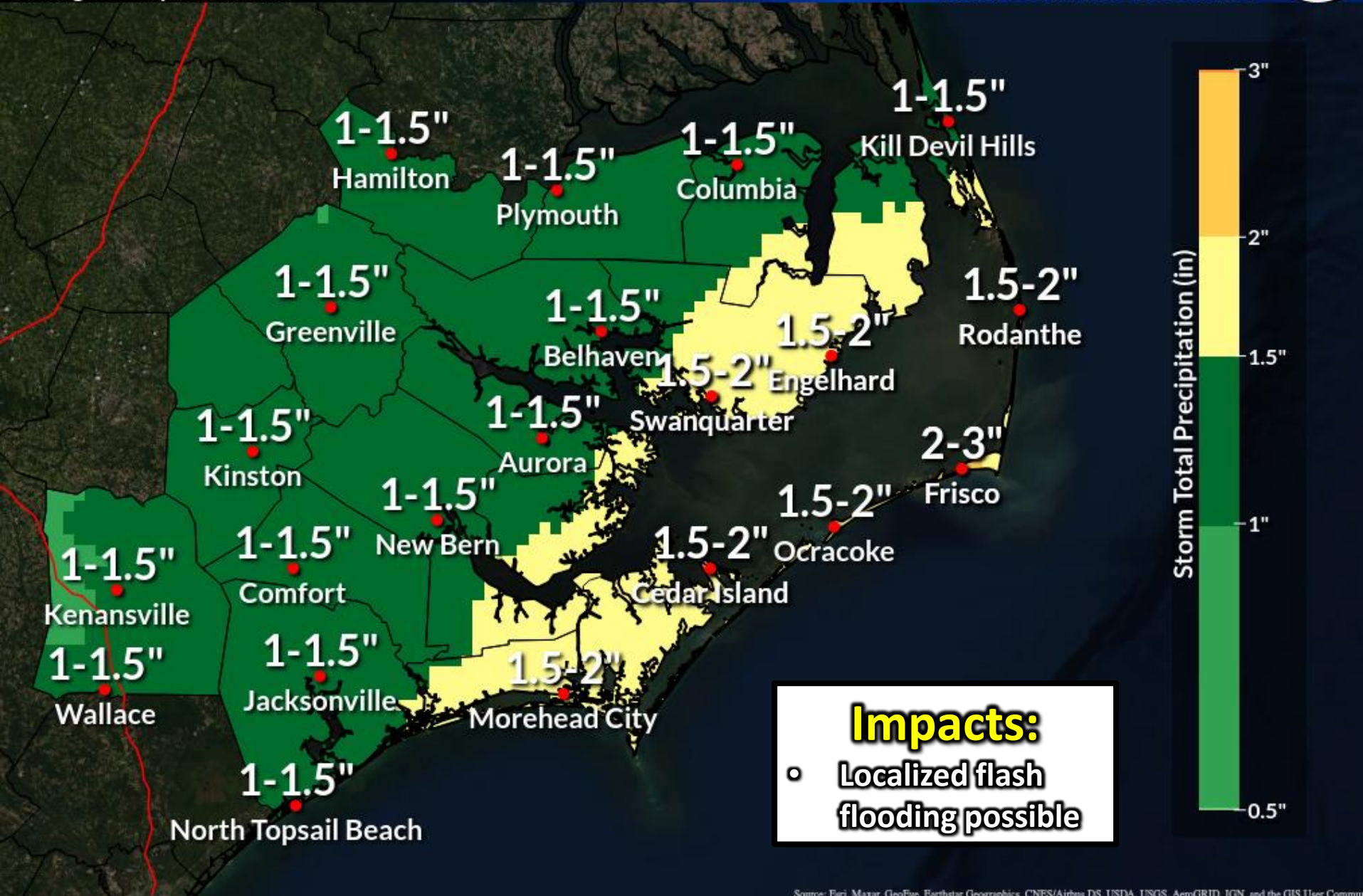
Source: Eri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Total Rainfall

Through Friday Afternoon

Weather Forecast Office
Newport/Morehead City, NC

Issued Dec 21, 2022 2:36 PM EST



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

Maximum Wave Heights

Weather Forecast Office
Newport/Morehead City, NC

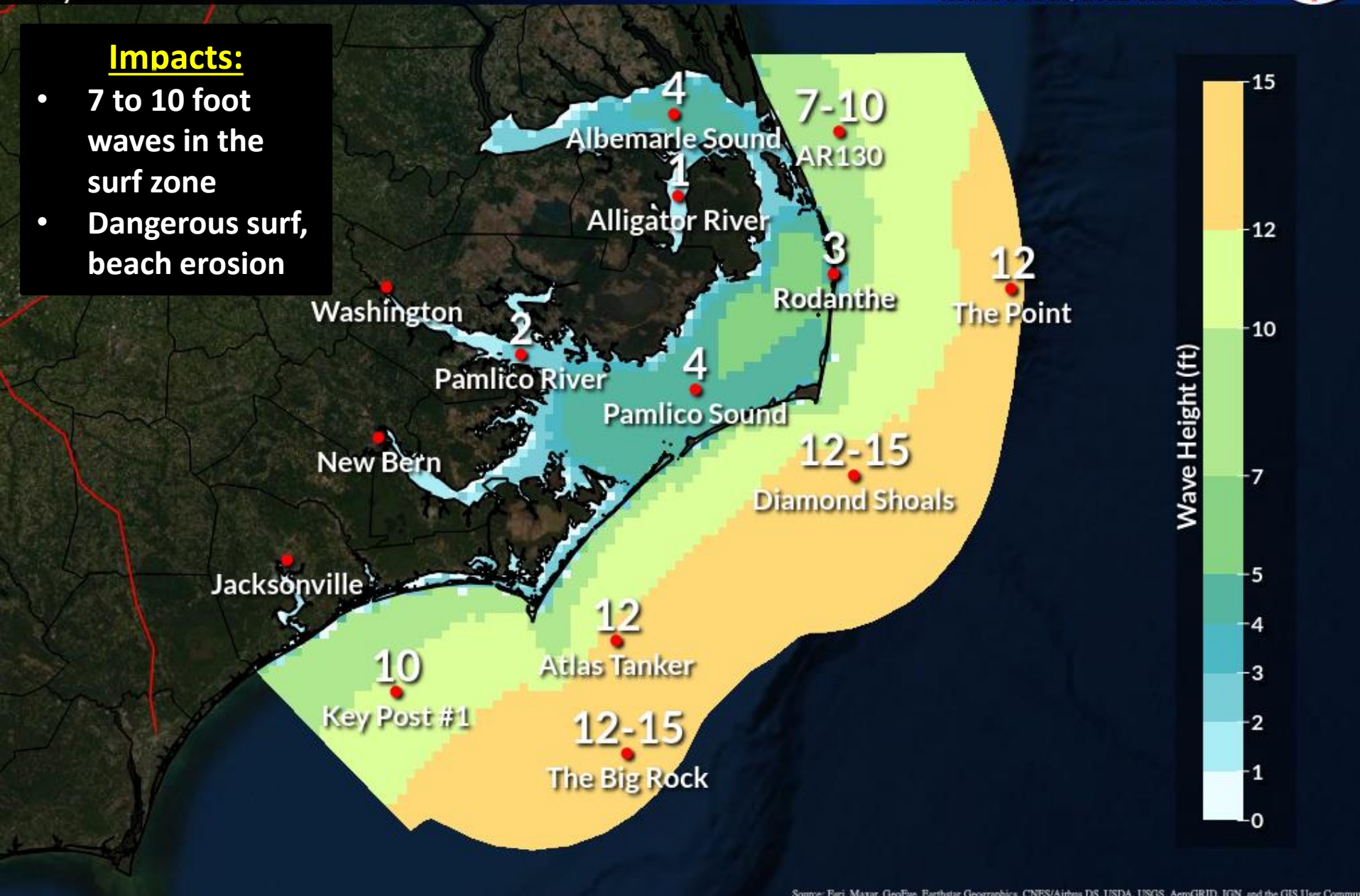


Issued Dec 21, 2022 3:26 PM EST

Friday

Impacts:

- 7 to 10 foot waves in the surf zone
- Dangerous surf, beach erosion



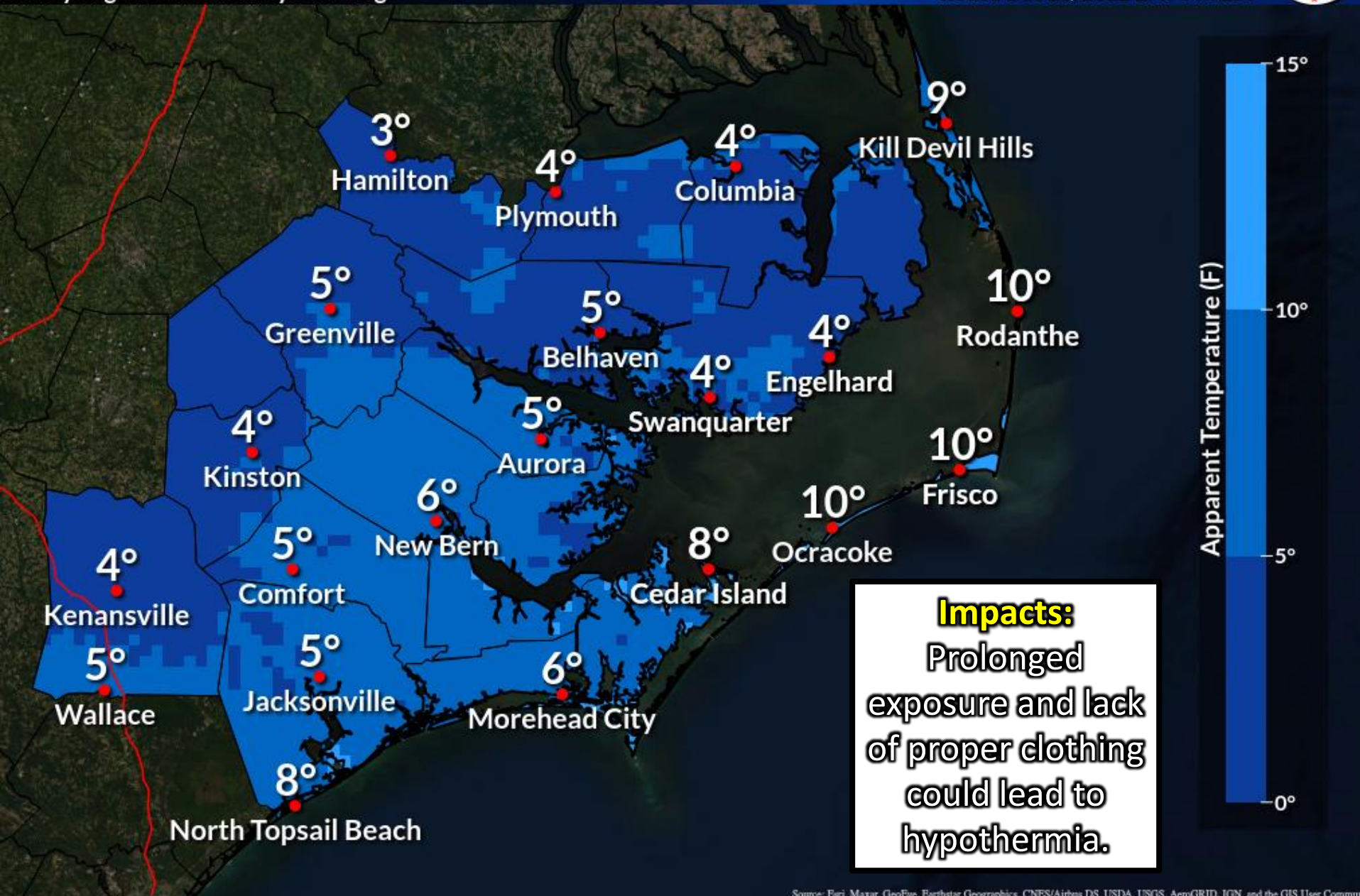
Source: Eri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Minimum Wind Chills

Friday Night into Saturday Morning

Weather Forecast Office
Newport/Morehead City, NC

Issued Dec 21, 2022 2:49 PM EST



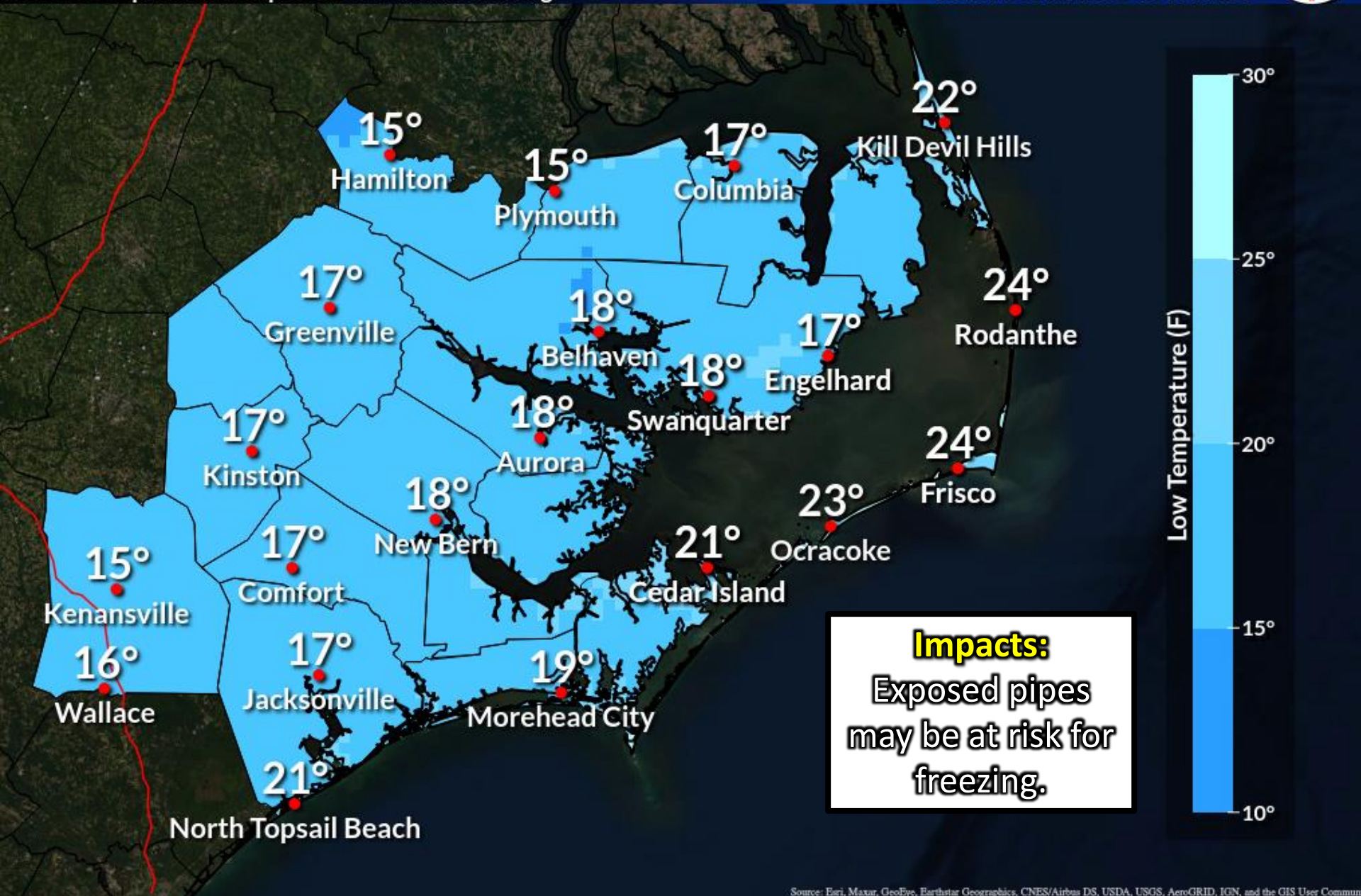
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Lows Saturday Morning

Similar Temperatures Expected Christmas Morning

Weather Forecast Office
Newport/Morehead City, NC

Issued Dec 21, 2022 4:04 PM EST



Impacts:
Exposed pipes
may be at risk for
freezing.

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.



Cold Weather: Dangerously cold temperatures for those outdoors, and possible damage to pipes.



Strong Winds: Wind gusts to 40 to 55 mph or higher along the coast could bring scattered power outages and damage outdoor items.



Very Dangerous Marine Conditions: Seas 10-15 ft and strong Gale to Storm Force winds 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 in thunderstorms could lead to downed trees and power lines. Primary threat may be around Thursday morning.



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 8 AM Thursday

[Briefing Webpage](#)



Web:

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



Phone (public):

(252) 223-5737 ext. 6



E-mail:

wxobs.mhx@noaa.gov



Facebook:

[NWS Newport/Morehead City](#)



Twitter:

[@NWSMoreheadCity](#)



YouTube:

[NWSMoreheadCity](#)