

Strong Storm System to Bring Multiple Hazards this Week

Decision Support Briefing # 6
As of 3 PM Thu, December 22nd, 2022






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



What Has Changed?

- Wind advisory has been expanded, wind chill advisories issued, coastal flood warnings and advisories also issued.

Main Points

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

Summary of Greatest Impacts



Coastal Flooding: See Maps to Follow

None	Limited	Elevated	Significant	Extreme
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Low Water Levels: See Maps to Follow

None	Limited	Elevated	Significant	Extreme
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Cold Temperatures: All of Eastern NC

None	Limited	Elevated	Significant	Extreme
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Strong Winds: All of Eastern NC

None	Limited	Elevated	Significant	Extreme
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Marine Impacts: All Marine Areas

None	Limited	Elevated	Significant	Extreme
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Coastal Flooding

Minor To Moderate Flooding Expected

Weather Forecast Office
Newport/Morehead City, NC

Issued Dec 22, 2022 2:44 PM EST



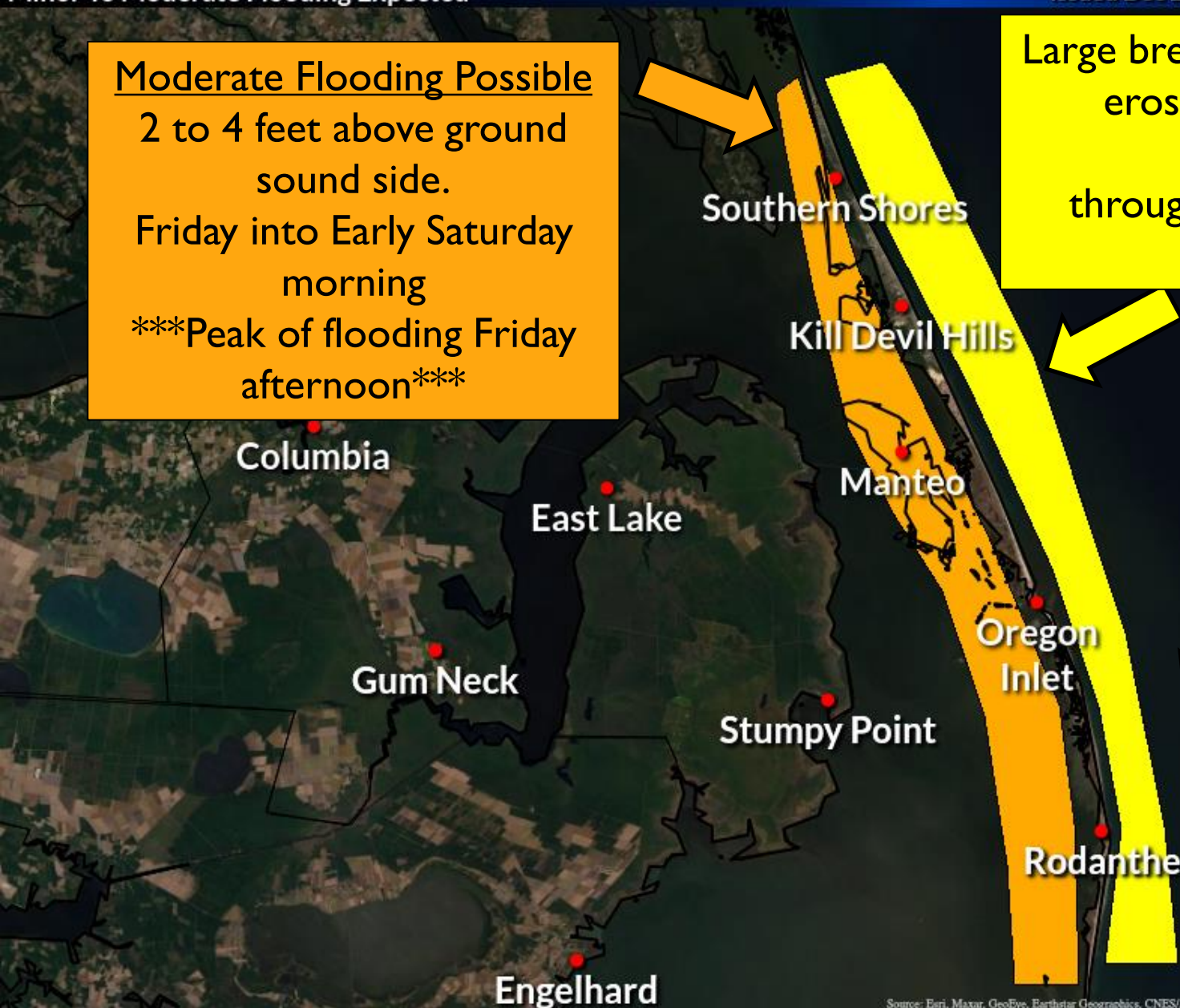
Moderate Flooding Possible

2 to 4 feet above ground
sound side.

Friday into Early Saturday
morning

***Peak of flooding Friday
afternoon***

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

Minor To Moderate Flooding Expected

Weather Forecast Office
Newport/Morehead City, NC

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Moderate Flooding Possible

2 to 4 feet above ground
sound side.

Friday into early Saturday
morning

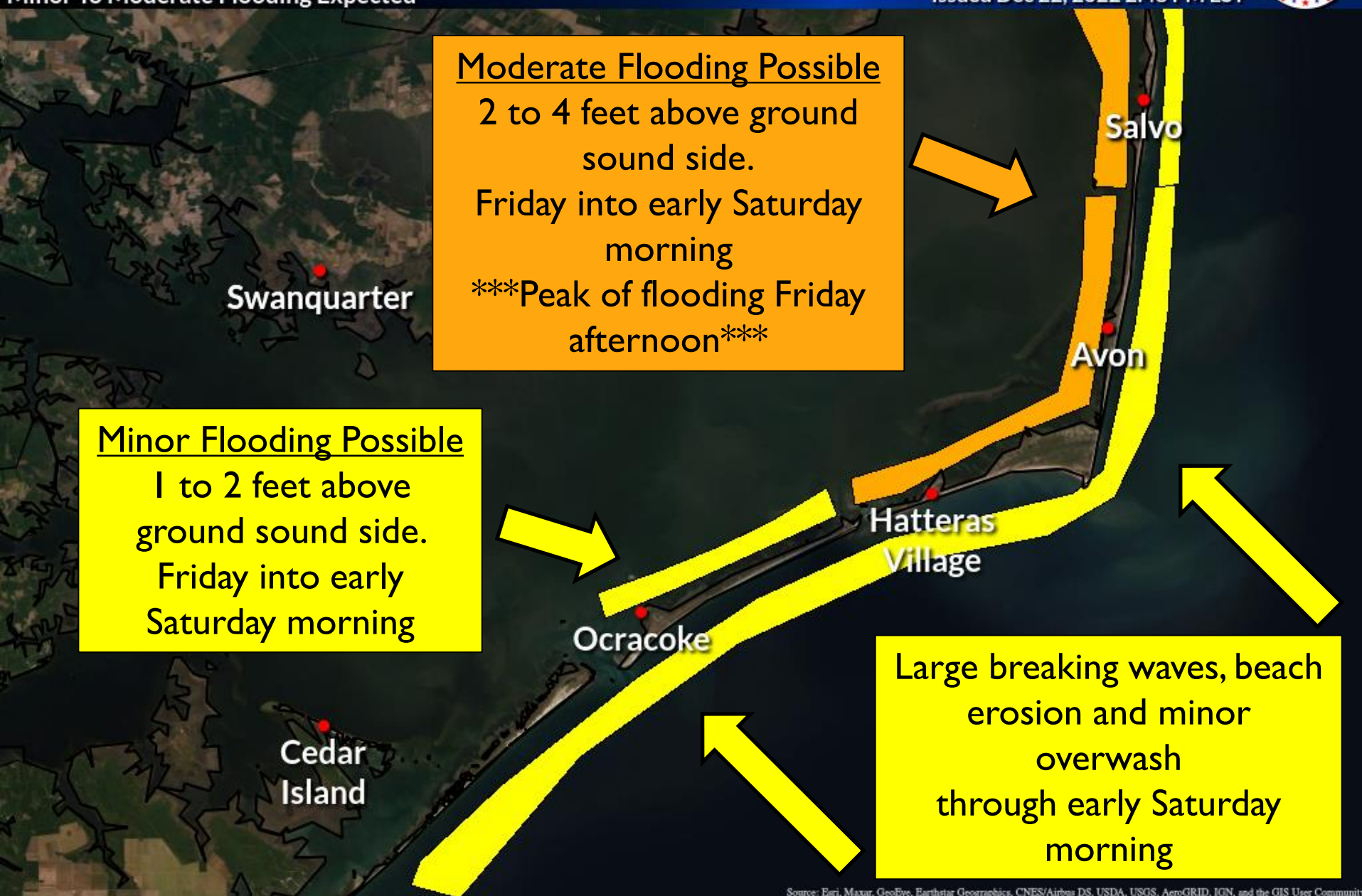
***Peak of flooding Friday
afternoon***

Minor Flooding Possible

1 to 2 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

Minor to Moderate Flooding Expected

Weather Forecast Office
Newport/Morehead City, NC

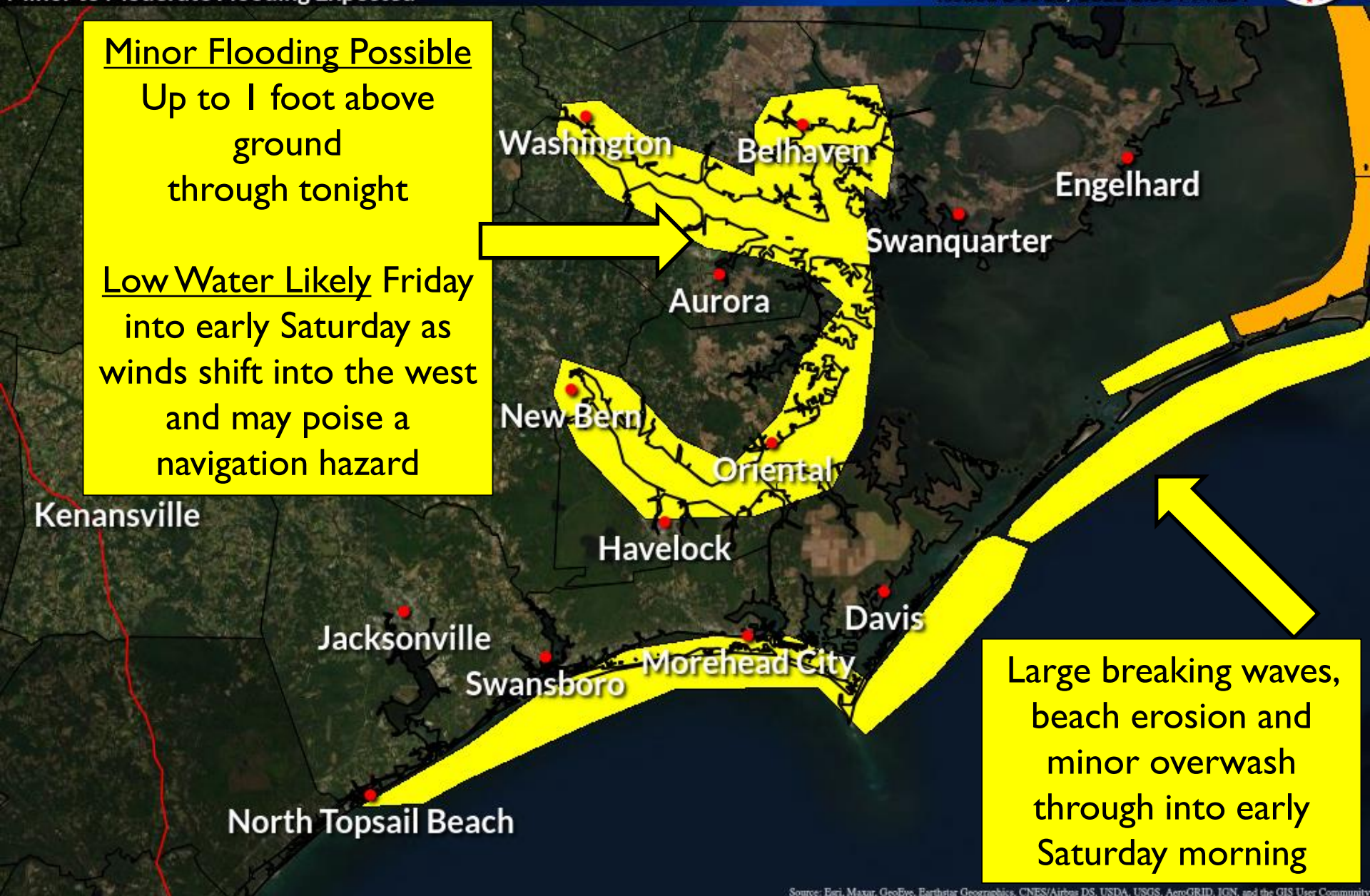
Issued Dec 22, 2022 2:53 PM EST



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 poise a
navigation hazard



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

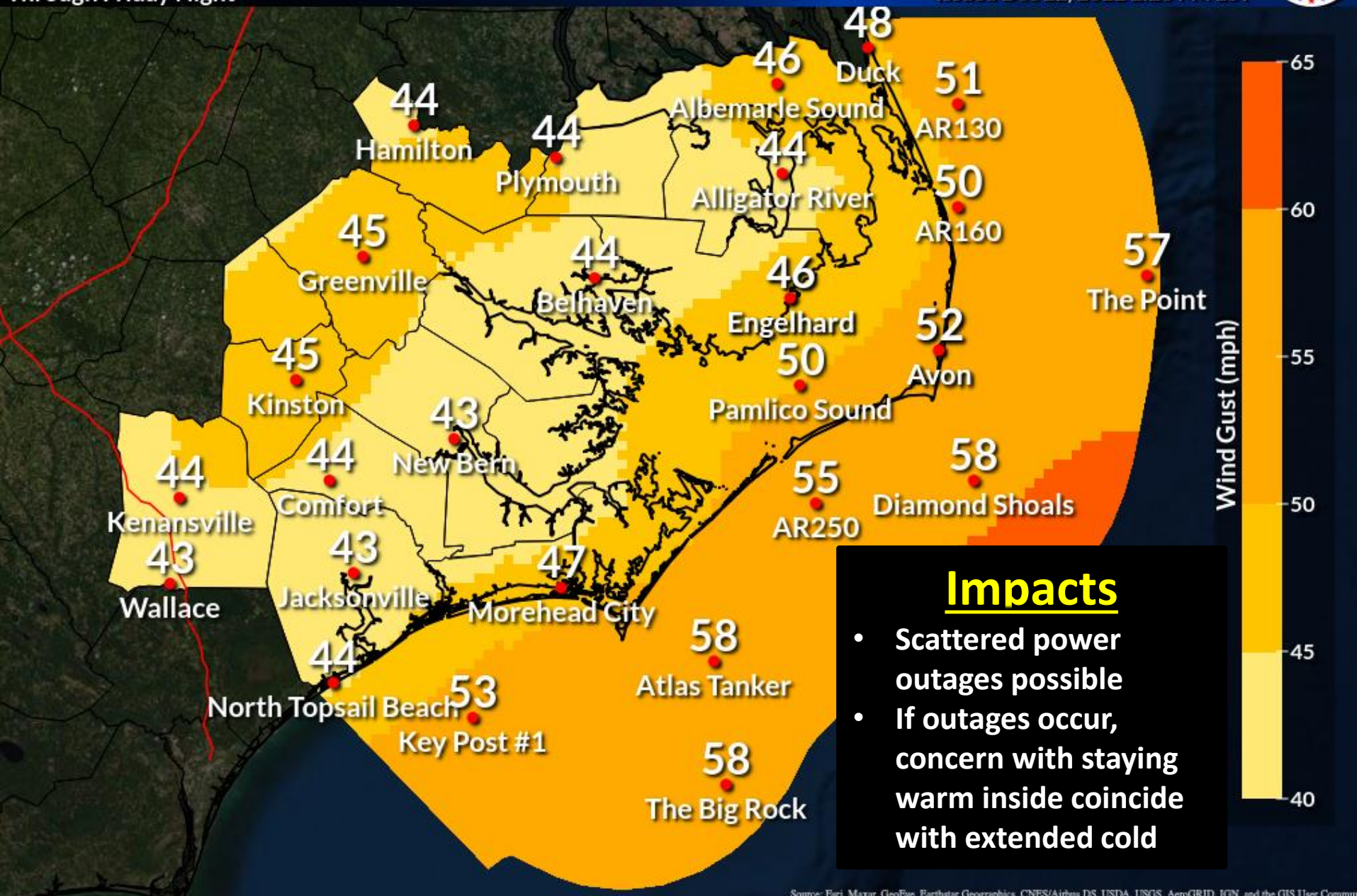
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Maximum Wind Gusts

Through Friday Night

Weather Forecast Office
Newport/Morehead City, NC

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Impacts

- Scattered power outages possible
- If outages occur, concern with staying warm inside coincide with extended cold

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

Maximum Wave Heights

Through Friday Night

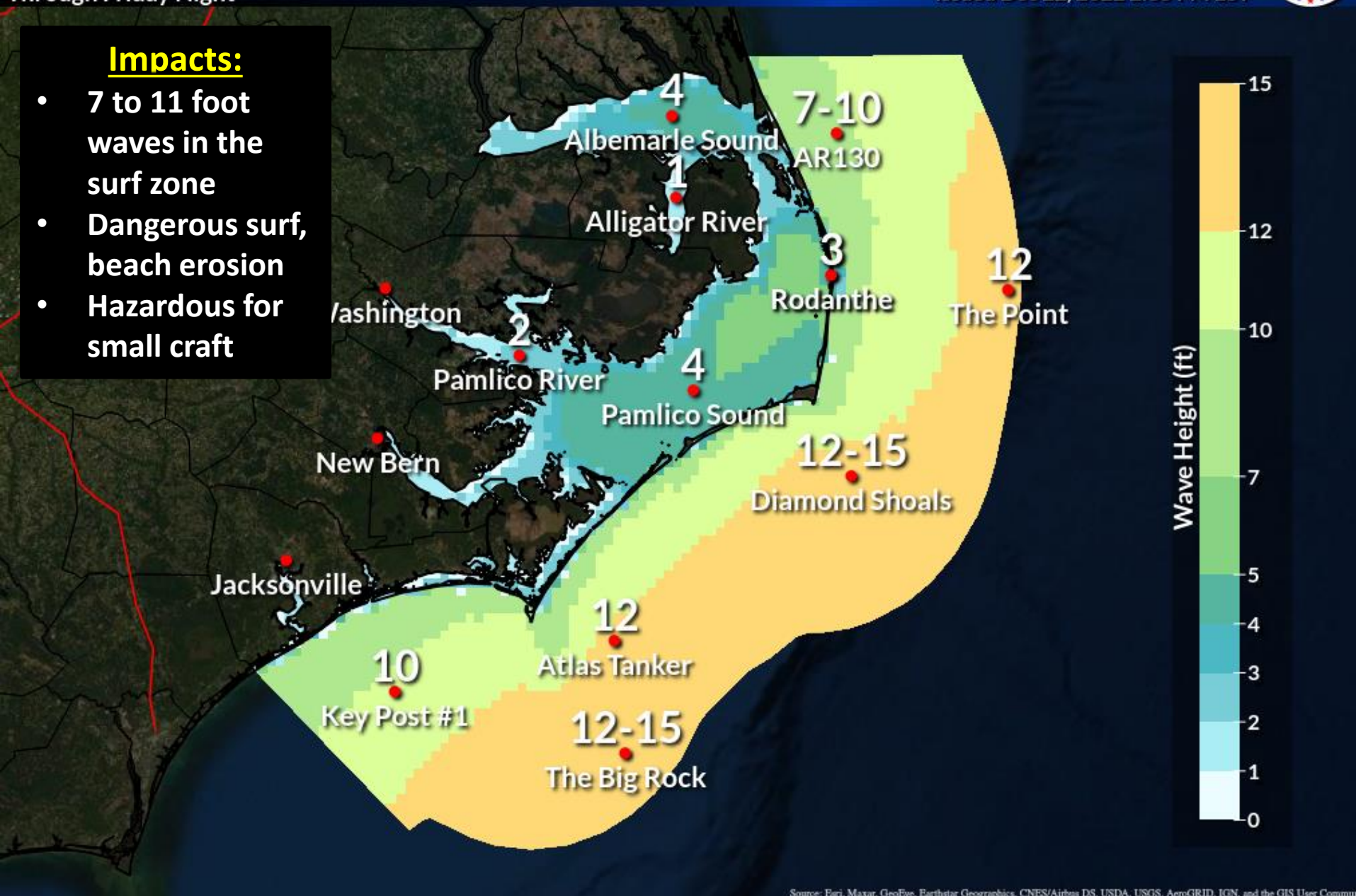
Weather Forecast Office
Newport/Morehead City, NC

Issued Dec 22, 2022 2:35 PM EST



Impacts:

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



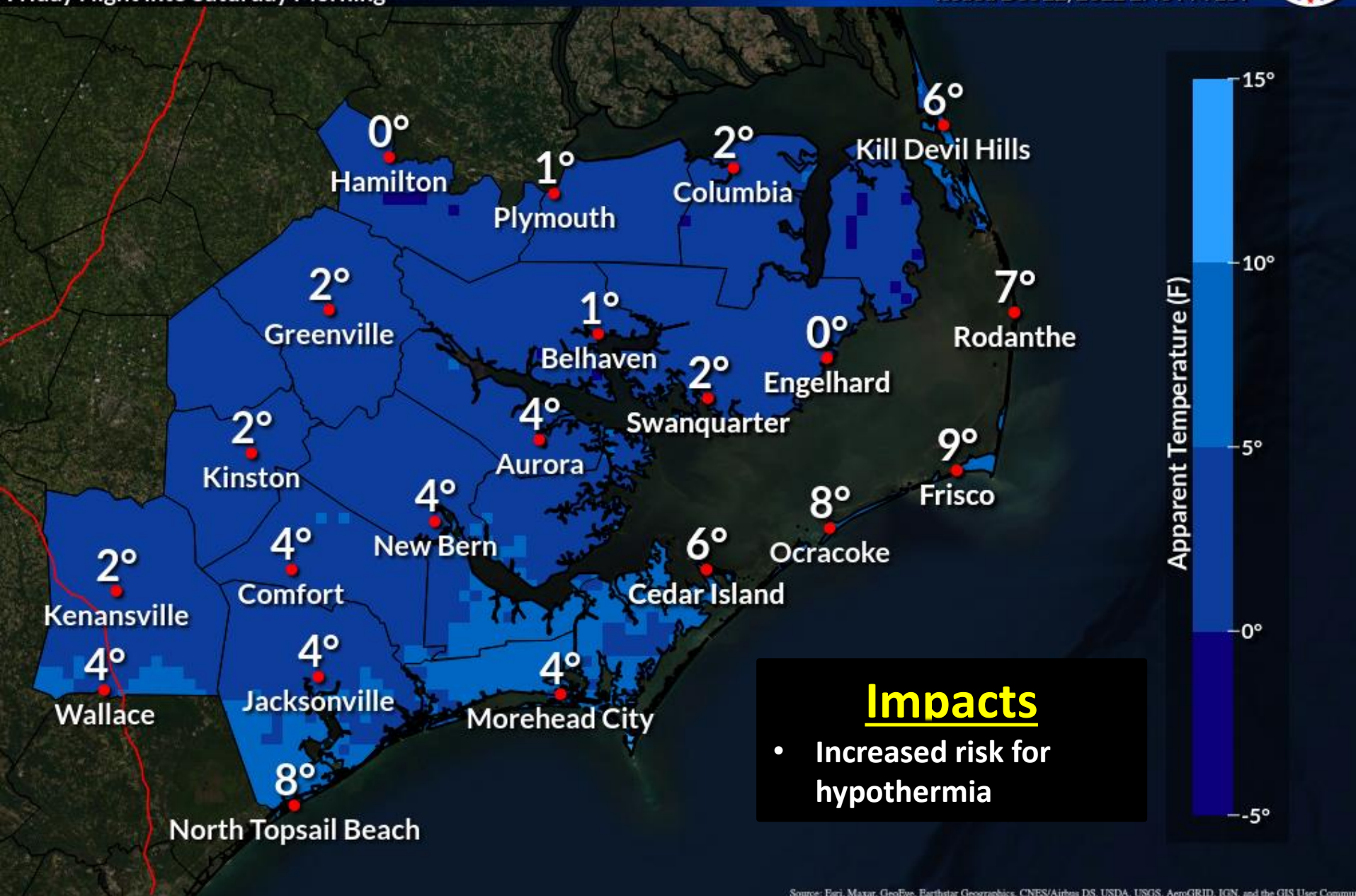
Source: Eri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Minimum Wind Chills

Friday Night into Saturday Morning

Weather Forecast Office
Newport/Morehead City, NC

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Impacts

- Increased risk for hypothermia

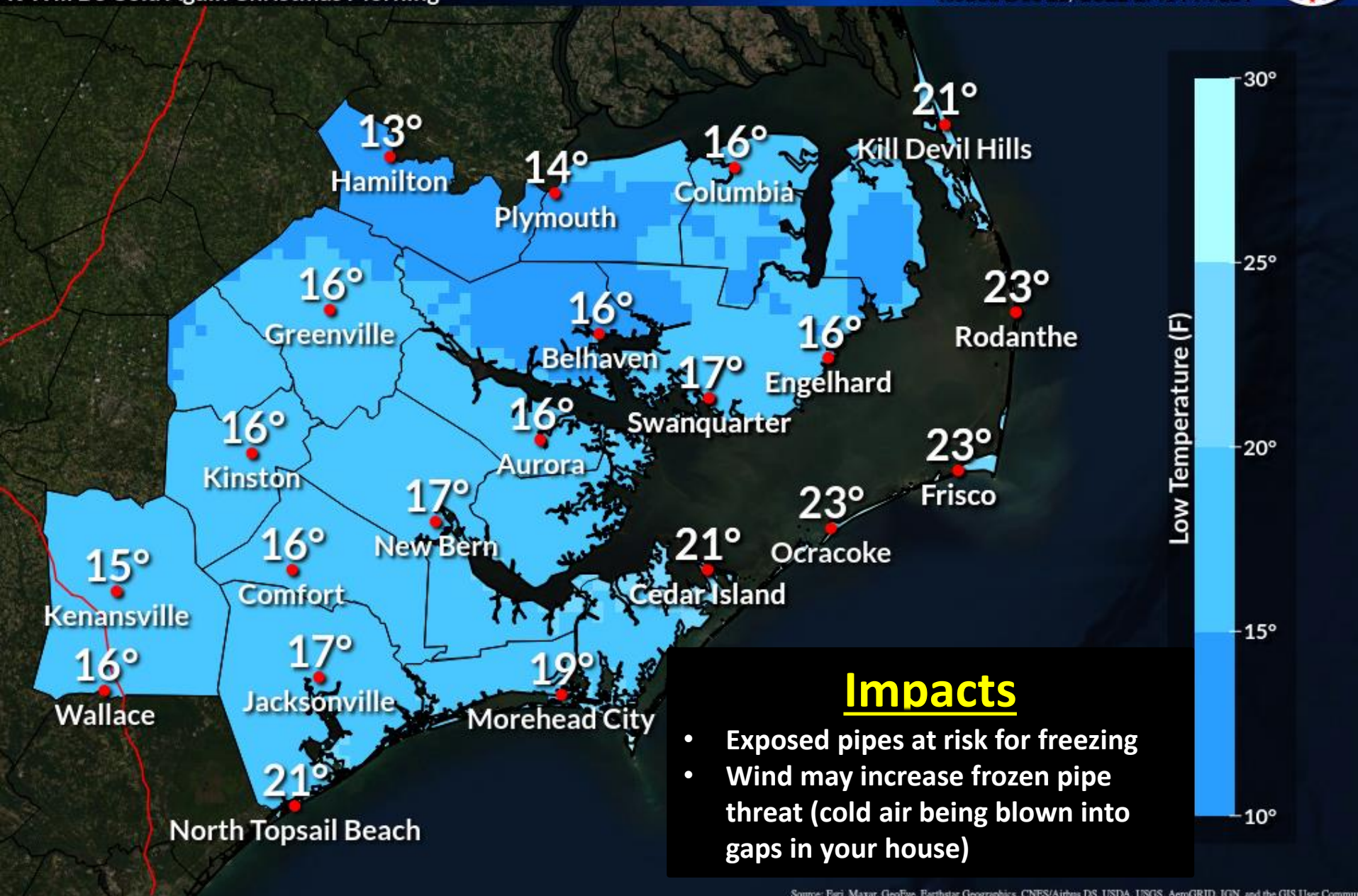
Source: Eri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Low Temperatures Saturday Morning

It Will Be Cold Again Christmas Morning

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Newport/Morehead City, NC

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

Event Summary

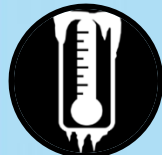
- ✓ Confidence is **HIGH** that this event will occur, and we are expecting **minor to moderate** impacts



Coastal Flooding: Minor to moderate impacts adjacent to the eastern Pamlico Sound, Croatan and Roanoke Sounds, including 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. 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.

weather.gov/winter



Staying **warm** when the power is out



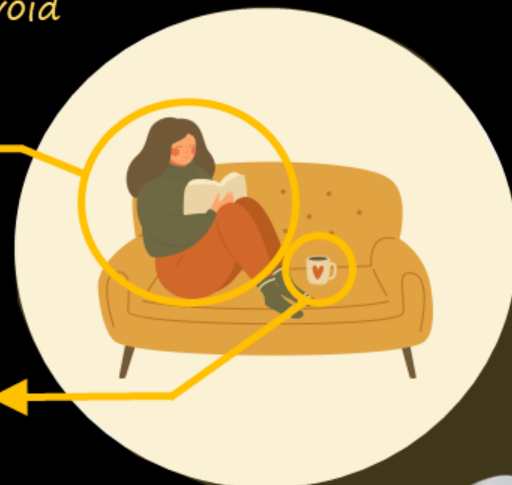
Close blinds or curtains to keep in some heat.

Close off rooms to avoid wasting heat.

Wear layers of loose-fitting, lightweight, warm clothing.

Eat and drink. Food provides energy to warm the body. Avoid caffeine and alcohol.

Stuff towels or rags in cracks under doors.



DON'T FORGET YOUR PETS



Even with a natural fur coat,
winter can be deadly for your pets
unless proper care is given.



Keep them warm and dry,
and indoors whenever possible.



Provide plenty of food and water.
Dehydration is especially dangerous in winter.



When outside, keep them bundled up.
Limit outside time, and thoroughly clean
(including paws) when bringing them in



weather.gov



Cold Weather? Remember the 4 P's



People



- ✓ Bundle up, cover exposed skin.
- ✓ Check on children, the elderly, & anyone else especially vulnerable during cold conditions.



Plants



- ✓ Bring in potted plants if possible.
- ✓ Cover sensitive plants that must remain outside.



Pets



- ✓ Bring them inside!
- ✓ Pets that must be left outside should have an enclosed shelter.



Pipes



- ✓ Allow water to drip from indoor faucets.
- ✓ Cover any exposed pipes outside.



National Weather Service
National Oceanic and Atmospheric Administration

Visit [weather.gov/mhx/winterprep](https://www.weather.gov/mhx/winterprep)
for more tips

Contact and Next Briefing Information



**Next Briefing can be
expected by 8 AM Friday**

[Briefing Webpage](http://www.weather.gov/mhx/)



Web:

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



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