



۲

# **Coastal Storm Sunday through Monday**

Decision Support Briefing # 6 As of: 3 PM Saturday, Dec 16, 2023 Briefing applies to the Morehead City/Newport, NC Area Only





What Has Changed?

- Coastal Flood Watches upgraded to Warnings/Advisories with confidence increasing.
- No major changes to forecast.





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







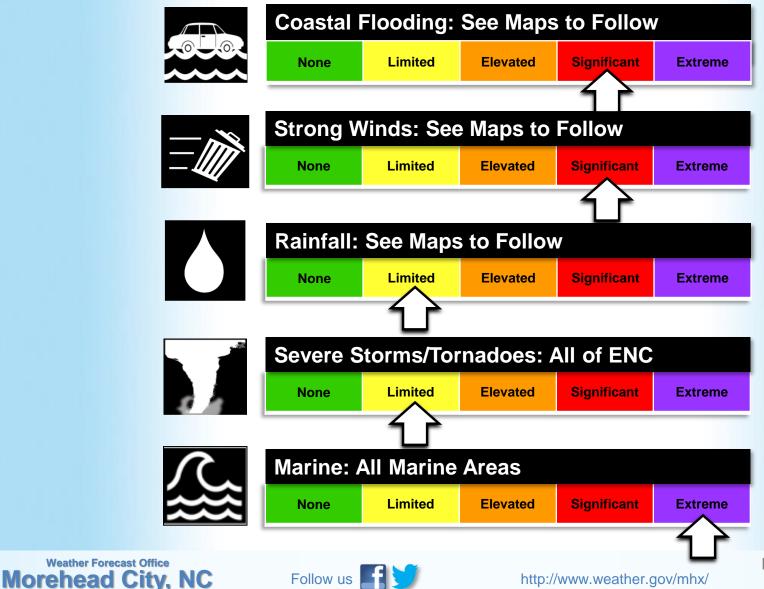
۲

Main Points			
Hazard	Impacts	Location	Timing
Coastal Flooding and Overwash	Coastal Flooding: Up to moderate to major inundation of low lying properties and roadways near tidal waterways. Ocean Overwash: Minor to moderate inundation of properties and roadways near vulnerable dune structures.	See map on following slides for full summary of impact locations.	See map on following slides for full summary of inundation timing.
Wind	Strong winds could damage outdoor items, bring scattered power outages, and result in hazardous driving conditions for high-profile vehicles.	Highest winds Central/Southern Outer Banks and Down East. Wind impacts also expected remainder of coastal counties.	Highest winds Sunday evening.
Rainfall Amounts	2 to 4 inches of rainfall, with localized amounts to around 5 inches, could bring localized flooding of poor drainage areas and hazardous travel.	All of Eastern NC.	Heaviest rainfall Sunday afternoon and evening.
Severe Storms	Strong storms and a tornado or two could produced locally enhanced wind damage.	All of Eastern NC. Greatest tornado threat closer to the southeast coast.	Sunday evening.
Marine & Rip Currents	Large, dangerous seas and rip currents. Winds with gusts to storm force.	Seas and Rip Currents: All coastal marine zones and area beaches. Storm Force Winds: Offshore waters from Surf City to Oregon Inlet. Gales: Remaining waters/sounds/rivers.	Sunday afternoon through Monday morning. Highest winds and seas Sunday evening.
Weather Forecast Office Morehead City, N	C Follow us	http://www.weather.gov/ml	Presentation Created hx/ 12/16/2023 4:24 PM





# **Summary of Greatest Impacts**

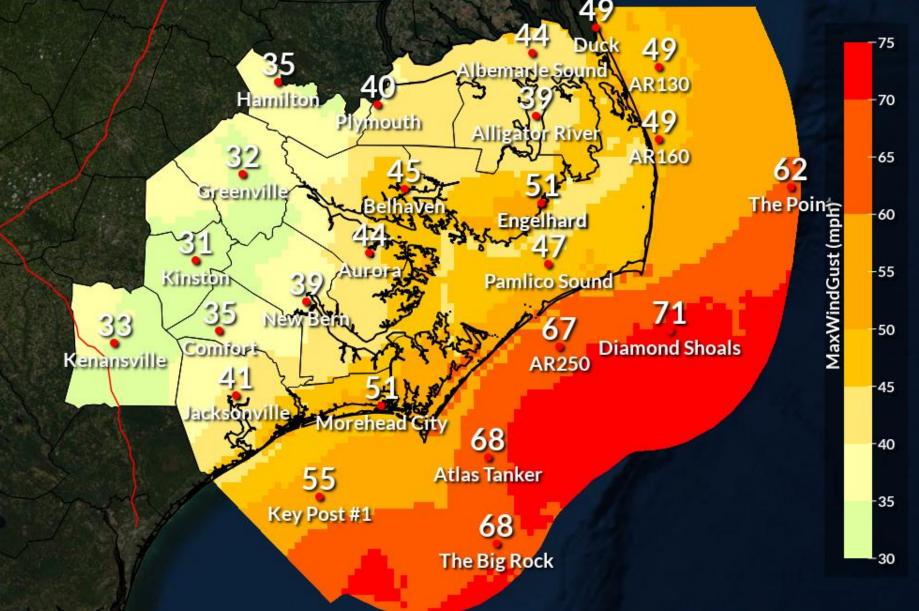


### **Peak Wind Gusts**

Sunday Afternoon into Evening

#### Weather Forecast Office Newport/Morehead City, NC Issued Dec 16, 2023 2:54 PM EST





💟 🔽 @NWSMoreheadCity

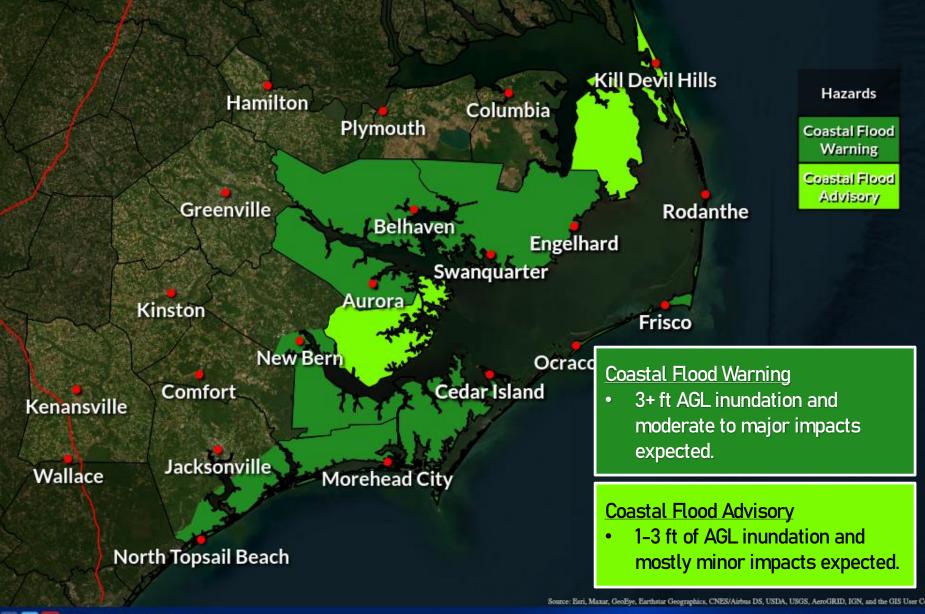
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USOS, AeroGRID, IGN, and the GIS User Community

weather.gov/moreheadcity

### **Coastal Flood Headlines**

Weather Forecast Office Newport/Morehead City, NC Issued Dec 16, 2023 3:30 PM EST





@NWSMoreheadCity

weather.gov/moreheadcity

### **Coastal Flooding Threat**

#### Potential Inundation (above ground)

#### Weather Forecast Office Newport/Morehead City, NC

Swanguarter



**Beaufort and Western Hyde Counties** 

- 3 to 6 feet of inundation. •
- Moderate flooding of low lying roads • and properties.
- Timing: Sunday Late Morning through Monday morning.

#### **Pamlico & Craven Counties**

- 2 to 4 feet of inundation near New Bern, 1 to 3 feet of inundation elsewhere on the lower Neuse River.
- Minor to locally Moderate flooding of • low lying roads and properties.

Jacksonville

**North Topsail Beach** 

Timing: Sunday afternoon through late Sunday night.

Havelock

Washington

New Bern

wansboro

Belhaver

Aurora

Oriental

**Morehead** Ci

**Carteret and Onslow Counties** 

Engelhard

- 2 to 4 feet of inundation possible Sunday into early Monday morning.
- Minor to locally Moderate overwash for vulnerable dune areas Sunday and Sunday night.
- Minor to Moderate flooding of low lying roads and properties.

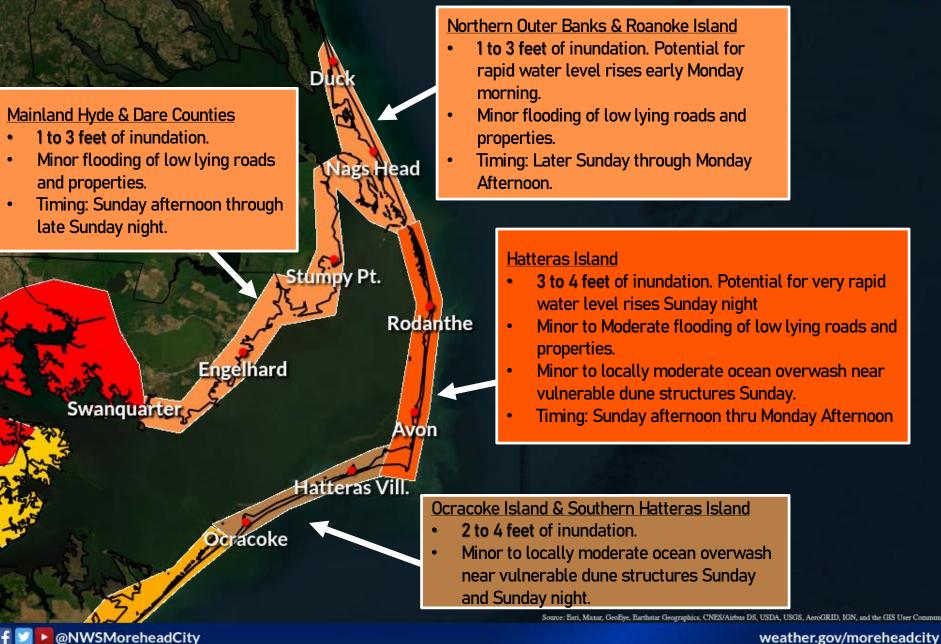
weather.gov/moreheadcity

@NWSMoreheadCity

### **Coastal Flooding Threat**

Potential Inundation (above ground)



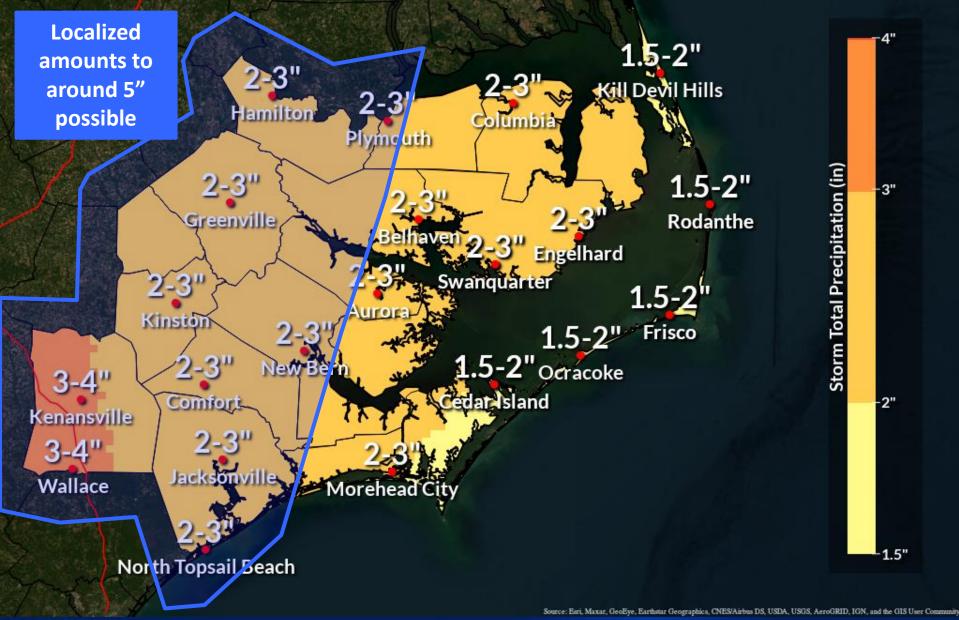


### **Storm Total Rainfall**

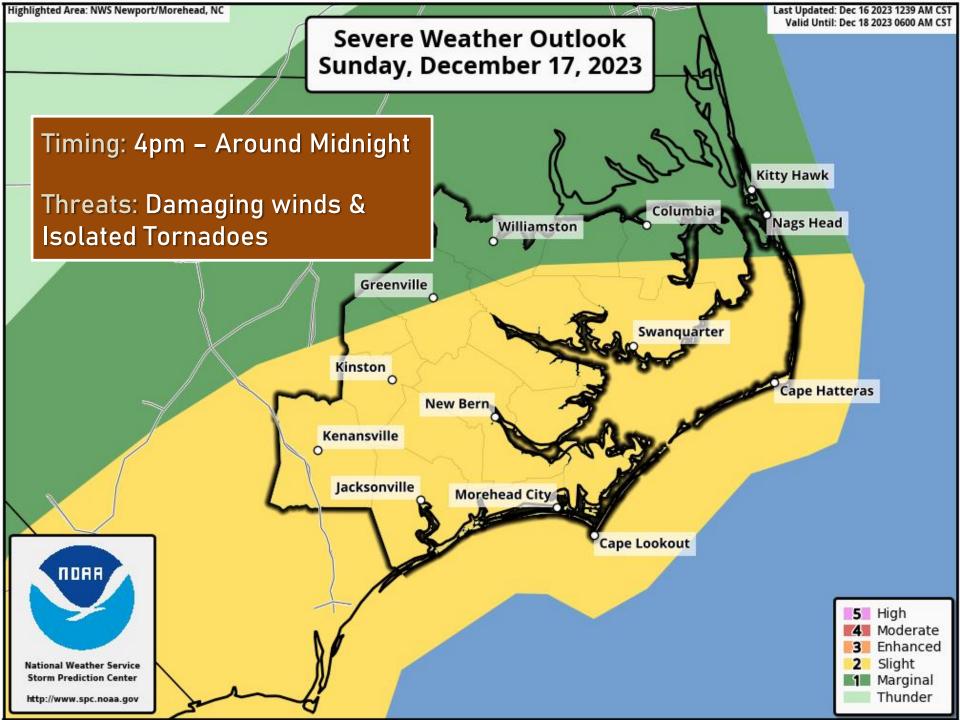
Sunday through Sunday

#### Weather Forecast Office Newport/Morehead City, NC Issued Dec 16, 2023 2:39 PM EST













# **Event Summary**

ONAL WEATHER SERVICE

 Confidence is HIGH that this event will occur, and we are expecting MODERATE to MAJOR impacts.



**Coastal Flooding:** Moderate to major soundside flooding possible on Sunday night along the Pamlico and Pungo Rivers. Minor to moderate inundation possible across much of the rest of ENC, with rapid water level rises possible for the soundside Outer Banks early Monday morning. **Ocean Overwash:** Large surf is expected for beaches from Rodanthe to Surf City, particularly late Sunday into early Monday, leading to potential beach erosion and overwash in vulnerable areas.



**Winds:** Windy conditions could damage outdoor items, bring scattered power outages, and result in hazardous driving conditions for high-profile vehicles. Strongest winds along the Outer Banks and Downeast Carteret Sunday evening.



**Rainfall:** 2 to 4 inches of rainfall across most of eastern NC, with localized amounts up to 5 inches possible. Minor flooding of poor drainage areas possible, especially along and west of US Hwy 17.



**Severe:** A few strong to severe storms and a tornado or two could produce locally enhanced damage, highest threat near the southeastern coast.



**Very Dangerous Marine Conditions:** Dangerous seas 15-25 ft with up to Storm Force winds Sunday afternoon through evening.







# **Contact and Next Briefing Information**



The next briefing will be sent out by noon Sunday 12/17/2023

**Briefing Webpage** 



۲





Weather Forecast Office Morehead City, NC



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