

National Weather Service

National Weather Service - Newport/Morehead City, NC

Tropical Storm Debby Briefing

6 AM ET

Thursday, August 8, 2024

What has changed:

Tornado Watch in effect until 1pm Thursday

Tropical Storm Warning now in effect for: Coastal Onslow and West and East Carteret.



- Tropical Storm Debby made landfall in South Carolina early this morning and will continue lifting north through central North Carolina this afternoon into early Friday morning.
- The biggest impact from TS Debby will be life-threatening flash flooding due to several days of heavy rainfall, lasting through Friday. Additional rainfall amounts will range 2-6 inches, with locally higher amounts possible. A Flash Flood Watch remains in effect through Friday evening.
- Tropical Storm Force winds will be possible for coastal portions of Onslow and Carteret Counties, resulting in storm surge inundation of **1 to 2 feet above ground** for these locations as TS Debby passes through NC today and early Friday.
- In addition, there is a threat for gusty winds and tornadoes today through Friday.



Tropical Storm Debby	Tropical	Storm	Debby
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Wind

Tornado

Marine

Impacts

Limited impacts from tropical

storm force winds will be

noccible

Potential for tornadoes.

Dangerous winds/seas likely,

resulting in rough surf and

Hazard

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Storm Surge & Inundation	Inundation of 1-3 feet above ground will be possible, limited impacts elsewhere	Mainly along the coast of Onslow & Carteret Counties	Through Friday
Flooding	Life-threatening flash flooding will be possible due to heavy rain.	All of Eastern NC	Through Friday

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high threat of rip currents Last updated: 8/8/2024 6 AM EDT National Weather Service - Newport/Morehead City, NC

Location

Mainly along the coast of Onslow &

Carteret Counties, and adjacent coastal waters

All of Eastern NC

All coastal waters and beaches

Timing

Through Friday

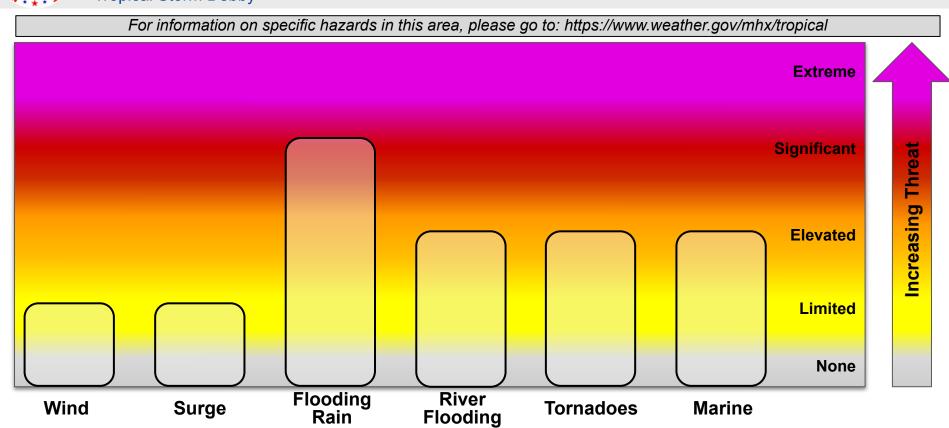
Through Friday

Through Friday



Threat Levels

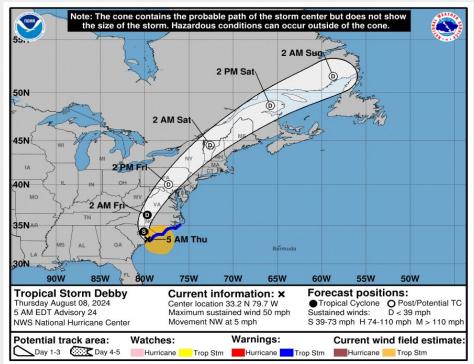
Tropical Storm Debby





Situation Overview

Tropical Storm Debby



NOTE: Do not focus on the exact track.

Impacts can occur well outside the area enclosed by the cone.

 TS Debby will slowly lift northward through SC and into central NC today into early Friday.

 Tropical Storm Warnings in effect for Onslow and Carteret counties.

 Remember, the primary impact from TS Debby will be flash flooding from heavy rainfall that will last through Friday.

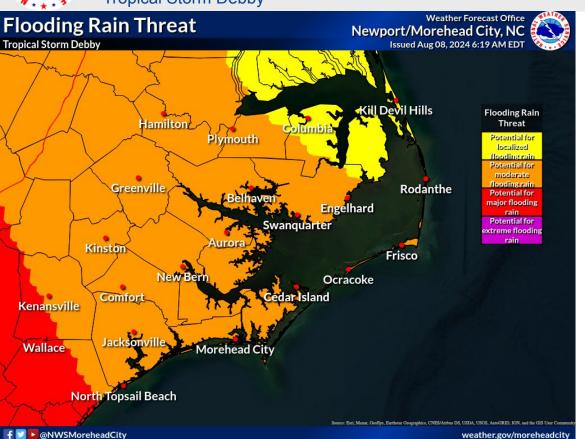
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Inland Flooding Impacts

Tropical Storm Debby



 Areas outlined in orange and red have the greatest potential for flash flooding from tonight through Friday.

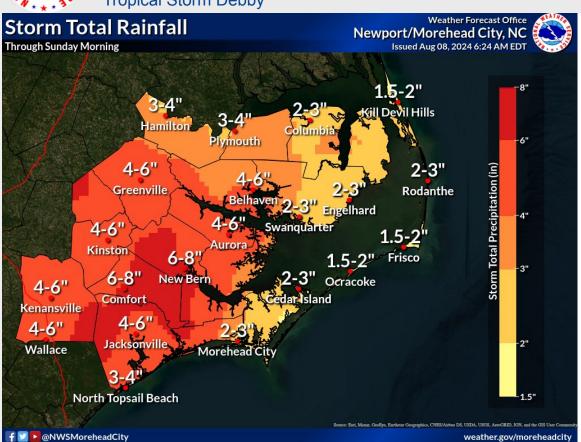
 Major rainfall flooding may prompt evacuations and rescues.

 Rivers and tributaries may rapidly overflow their banks in multiple places. Small streams, creeks, canals, and ditches may become dangerous rivers.



Expected Storm Total Rainfall

Tropical Storm Debby



- Storm Total Rainfall through Sunday morning will range from 2 to 6 inches with locally higher amounts possible.
 - Eastern NC has already observed 2 to 5 inches of rainfall from TS Debby with locally heavier amount of up to 7 inches in some locations.

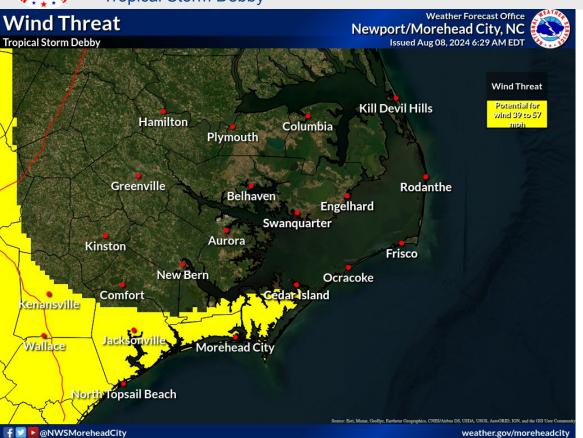
Greatest potential for Flash Flooding will be along and west of HWY 17.

Do not drive through flooded roads. The majority of flood deaths are in vehicles. Turn around don't drown!



Wind Threat / Potential Impact

Tropical Storm Debby



There is a potential for:

 Damage to porches, awnings, carports, sheds, and unanchored mobile homes. Unsecured lightweight objects blown about.

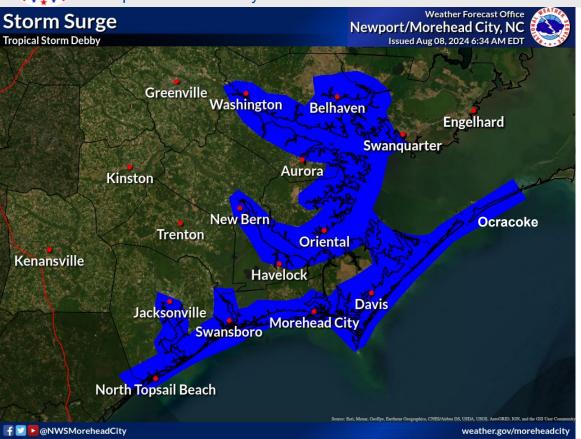
 A few trees snapped or uprooted, but with greater numbers in places where trees are shallow rooted and soils are saturated.

Scattered power and communication outages.



Peak Storm Surge

Tropical Storm Debby

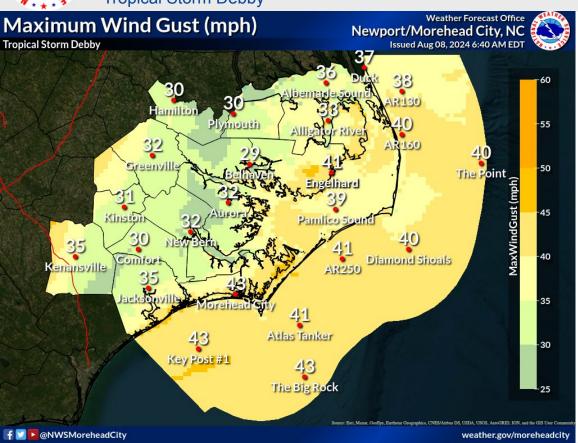


- Storm surge inundation of 1 to 2 feet will be possible for coastal portions of Onslow, Carteret, and Hyde Counties (Surf City to Ocracoke Island), and for Counties adjacent to the Pamlico, Pungo, Neuse and Bay Rivers
- Coastal Flood Advisory remains in effect for Carteret & Onslow Counties.
 The Coastal Flood Advisory has been expanded to include Beaufort, Craven, Hyde, and Pamlico Counties.
- Elsewhere, limited storm surge inundation up to 1 foot will be possible.



Maximum Wind Gusts

Tropical Storm Debby



 A core of high winds is expected near and to the east of the final storm track, which currently takes the center of TS Debby through central NC.

 Higher winds are also expected near the coast and exposed areas to water.

Strongest winds are expected today into Friday morning.



Potential Tornado Impacts

Tropical Storm Debby



 Main threat of tornadoes will be today through Friday morning for all of Eastern NC.

 All residents should have multiple ways to receive tornado warnings should any be issued (NOAA Weather Radio, cell phone, TV, etc.).

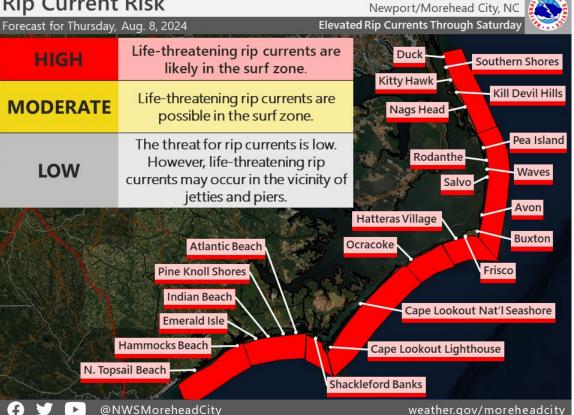


Dangerous Rip Currents

Weather Forecast Office

Tropical Storm Debby

Rip Current Risk



For Thursday, August 8th:

- High Rip Current Risk from **Duck to Surf City**
- High Surf advisory for breaking waves of 5-9 feet from Oregon Inlet to Surf City

For Friday through Saturday:

- High Rip Current Risk from **Duck to Surf City**
- High Surf advisory for breaking waves of 5-9 feet from Oregon Inlet to Surf City through Friday.



Confidence is HIGH that the event will occur Confidence is HIGH regarding impacts



Tropical storm force winds possible across portions of Eastern NC, with scattered tree damage and power outages possible. Tropical Storm Warnings in effect for coastal Onslow and Carteret Counties.



Surge surge inundation of 1 to 2 ft above ground will be possible for coastal Onslow, Carteret and Hyde counties, and for the waters adjacent to the Neuse, Pamlico, Bay and Pungo Rivers. Elsewhere, limited impacts are anticipated, with 1 ft of inundation or less possible.



Life-threatening flash flooding will be possible due to several days of heavy rainfall, with amounts ranging from 2 to 6 additional inches expected, with locally higher amounts across Eastern NC.



Potential for tornadoes across all of Eastern NC through Friday.



Dangerous marine conditions across the coastal waters. High threat of rip currents will continue through the weekend.



Next Briefing: 7 PM ET - August 8, 2024 Method: Email

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