

National Weather Service

National Weather Service - Newport/Morehead City, NC

Tropical Storm Debby Briefing

6 PM ET

Tuesday, August 6, 2024

What has changed:
Tornado Watch in effect until 1AM Wednesday



Situation Overview

Tropical Storm Debby

- Tropical Storm Debby will move slowly along or just offshore of the South Carolina coast tonight through late Thursday, before lifting north through central North Carolina Friday.
- The biggest impact from TS Debby will be life-threatening flash flooding due to several
 days of heavy rainfall, lasting through Friday. Rainfall amounts will range 5-10 inches,
 with locally higher amounts upwards of 15 inches possible. A Flash Flood Watch
 remains in effect through Friday.
- Tropical Storm Force winds will be possible for coastal portions of Onslow and Carteret Counties, resulting in storm surge inundation of **1 to 3 feet above ground** for these locations as TS Debby passes through NC on Thursday and Friday.
- In addition, there is a limited threat for gusty winds and tornadoes Tonight through Friday.



Tropical Storm Debby

Wind

Tornado

Impacts

Limited impacts from tropical

storm force winds will be

A few tornadoes will be

possible

Hazard

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

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Dangerous winds/seas likely, All coastal waters and beaches Wednesday through resulting in rough surf and Friday Marine high threat of rip currents

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Location

Mainly along the coast of Onslow &

Carteret Counties, and adjacent

All of Eastern NC

Timing

Wednesday night through

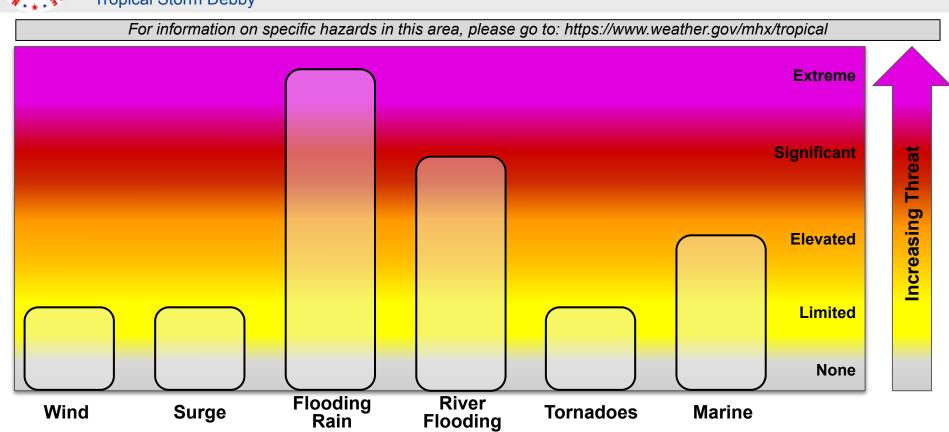
Friday

Through Friday



Threat Levels

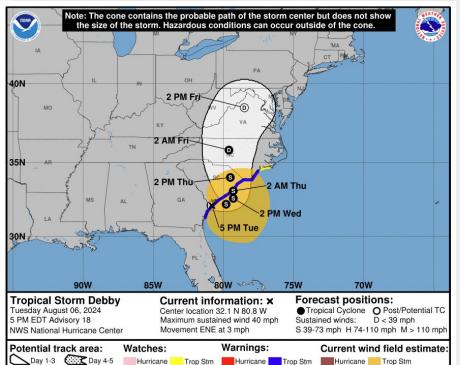
Tropical Storm Debby





Situation Overview

Tropical Storm Debby



NOTE: Do not focus on the exact track.

<u>Impacts can occur well outside the area enclosed by the cone.</u>

 TS Debby will move along the SC coast through Thursday, then lift through central NC on Friday.

 Tropical Storm Watches remain in effect for Onslow and Carteret counties.

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

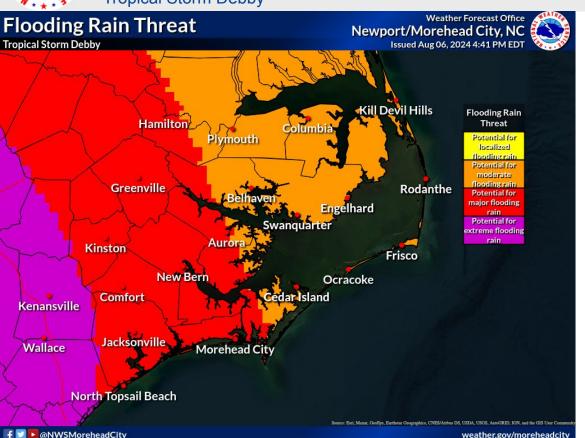
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Inland Flooding Impacts

Tropical Storm Debby



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

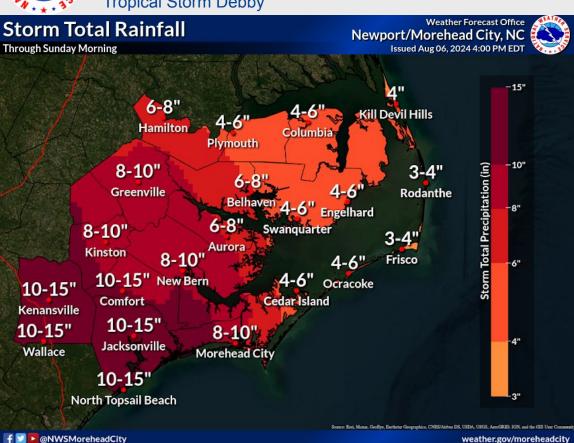
 Extreme rainfall flooding may prompt evacuations and rescues.

 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 amounts will range 5-10 inches with locally higher amounts upwards of 15 inches.

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.

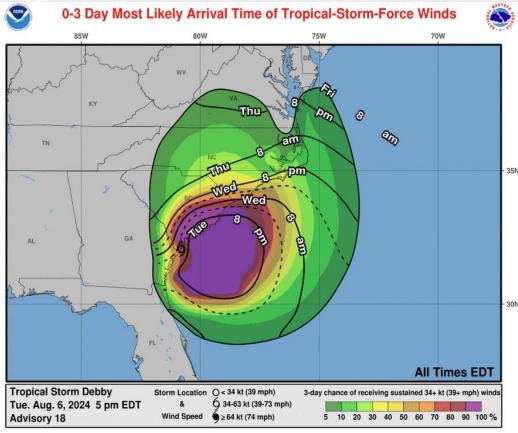
 Many large tree limbs broken off. A few trees snapped or uprooted, but with greater numbers in places where trees are shallow rooted and soils are saturated.

Scattered power and communication outages.



Most Likely Time of Arrival

Tropical Storm Debby



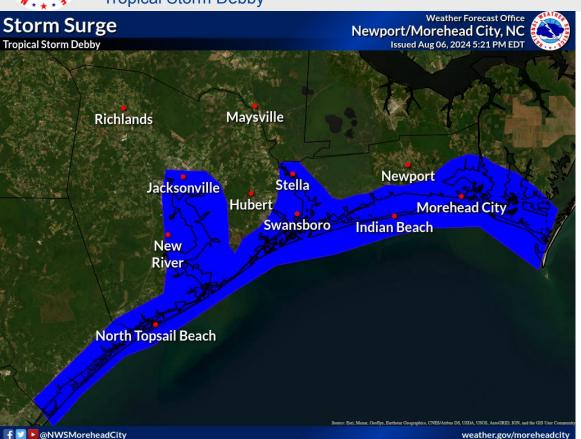
 The most likely time of arrival of Tropical Storm Force Winds for the Eastern NC is Thursday morning.

 However, Eastern NC could see Tropical Storm Force Winds as early as Wednesday night for southern coastal locations.



Peak Storm Surge

Tropical Storm Debby



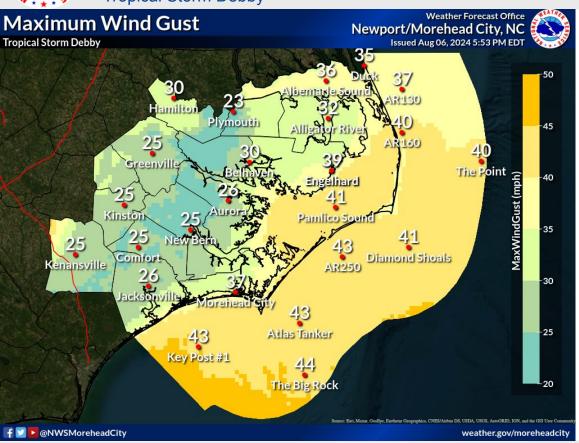
 Storm surge inundation of 1 to 3 feet will be possible for coastal portions of Onslow and Carteret counties (Surf City to Cape Lookout).

 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 Thursday into Friday.



Potential Tornado Impacts

Tropical Storm Debby



 Main threat of tornadoes will be from this afternoon 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.).



Tornado Watch

Tropical Storm Debby - Valid Until 1 AM, Wed., August 7, 2024

Tornado Watch

Valid Until 1:00 AM EDT Wednesday August 7, 2024

Threat Information



HAIL Is dated Hail Up To

lsolated Hail Up To Half Inch Size Possible

اداعات التركيب WIND

Isolated Gusts Up To 70 MPH Possible

Potential Exposure

Population: 1,384,952
Schools: 316
Hospitals: 33



 A Tornado Watch is in effect until 1AM Tonight.

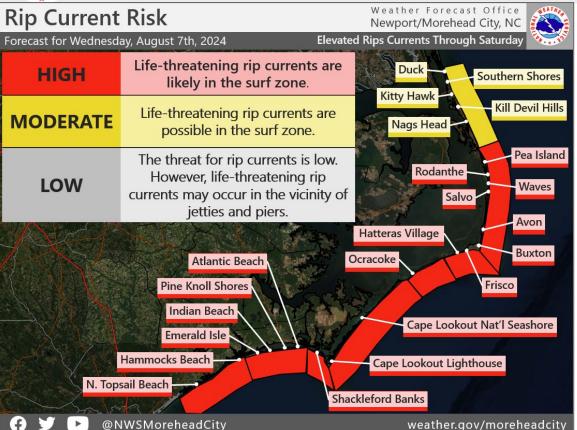
 Additional tornado watches may be issued Wednesday into Thursday due to rainbands moving onshore associated with the slow moving motion of Tropical Storm Debby.

 Have multiple ways to receive warnings - night time tornadoes are particularly dangerous!



Dangerous Rip Currents

Tropical Storm Debby



For Wednesday, August 7th:

High Rip Current Risk from Oregon Inlet south to Surf City

For Thursday through Saturday:

High Rip Current Risk from Duck to Surf City



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



Tropical storm force winds possible across portions of Eastern NC, with scattered tree damage and power outages possible.



Surge surge inundation of 1 to 3 ft above ground will be possible for coastal Onslow & Carteret counties. 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 5 to 10 inches, locally upwards of 15 inches across Eastern NC.



Isolated tornadoes will be possible for all of Eastern NC Tonight through Friday.



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



Next Briefing: 6 AM ET - August 7, 2024 Method: Email

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