Tropical Storm Debby Briefing

6 AM ET

Wednesday, August 7, 2024

What has changed:

Slightly faster progression after landfall in SC.
Coastal Flood Advisory in effect for Carteret and Onslow Counties
High Surf Advisory in Effect from Oregon Inlet to Surf City
Situation Overview

Tropical Storm Debby

- Tropical Storm Debby will move slowly just offshore of the South Carolina coast today, make landfall in South Carolina late tonight, before lifting north through central North Carolina Thursday night and 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 **4-8 inches, with locally higher amounts possible**. A Flash Flood Watch remains in effect through Thursday night.

- 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 Today through Friday.
## Situation Overview

### Tropical Storm Debby

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Impacts</th>
<th>Location</th>
<th>Timing</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Wind</strong></td>
<td>Limited impacts from tropical storm force winds will be possible</td>
<td>Mainly along the coast of Onslow &amp; Carteret Counties, and adjacent coastal waters</td>
<td>Tonight through Friday</td>
</tr>
<tr>
<td><strong>Storm Surge &amp; Inundation</strong></td>
<td>Inundation of 1-3 feet above ground will be possible, limited impacts elsewhere</td>
<td>Mainly along the coast of Onslow &amp; Carteret Counties</td>
<td>Thursday through Friday</td>
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<tr>
<td><strong>Flooding Rain</strong></td>
<td>Life-threatening flash flooding will be possible due to heavy rain.</td>
<td>All of Eastern NC</td>
<td>Through Friday</td>
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<tr>
<td><strong>Tornado</strong></td>
<td>A few tornadoes will be possible</td>
<td>All of Eastern NC</td>
<td>Through Friday</td>
</tr>
<tr>
<td><strong>Marine</strong></td>
<td>Dangerous winds/seas likely, resulting in rough surf and high threat of rip currents</td>
<td>All coastal waters and beaches</td>
<td>Through Friday</td>
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</tbody>
</table>

Last updated: 8/7/2024 6 AM EDT

National Weather Service - Newport/Morehead City, NC
Threat Levels

Tropical Storm Debby

For information on specific hazards in this area, please go to: https://www.weather.gov/mhx/tropical

Wind
Surge
Flooding Rain
River Flooding
Tornadoes
Marine

Increasing Threat

Extreme
Significant
Elevated
Limited
None
TS Debby will move along the SC coast through Thursday, then lift through central NC Thursday night into 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.

NOTE: Do not focus on the exact track. Impacts can occur well outside the area enclosed by the cone.
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.
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!
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.
The most likely time of arrival of Tropical Storm Force Winds for the Eastern NC is tonight.

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

Coastal Flood Advisory in effect for Carteret and Onslow Counties.
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.
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.).
For Wednesday, August 7th:

- High Rip Current Risk from Oregon Inlet south to Surf City
- High Surf advisory for breaking waves of 6-10 feet from Oregon Inlet to Surf City.

For Thursday through Saturday:

- High Rip Current Risk from Duck to Surf City
- High Surf advisory for breaking waves of 6-10 feet from Oregon Inlet to Surf City.
Key Take-Aways

Tropical Storm Debby

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 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 4 to 8 inches, locally upwards of 10+ 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 PM ET - August 7, 2024
Method: Email

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