
NOAA - Tropical Storm Debby #9

Physical Threat
Bulletins

TLP:WHITE

Alert Id: dccc1d7d

2024-08-07 12:22:52

Summary:

As of August 07, 2024, at 8:00 am EDT Debby is moving northeast at near 4 mph. The storm is currently tracking over the Atlantic and is expected to move north into South Carolina on later today or Thursday morning. There are Storm Surge, Tropical Storm, and Hurricane warnings along the southern and western coasts of Florida. Below is the weather advisory update provided by NOAA and the National Hurricane Center and Central Pacific Hurricane Center.

NOAA Update:

324

WTNT34 KNHC 071154

TCPAT4

BULLETIN

Tropical Storm Debby Intermediate Advisory Number 20A

NWS National Hurricane Center Miami FL AL042024

800 AM EDT Wed Aug 07 2024

...DEBBY MOVING SLOWLY NORTHEASTWARD OFF THE SOUTH CAROLINA COAST...

...MAJOR FLOOD THREAT CONTINUES FOR PORTIONS OF THE CAROLINAS...

SUMMARY OF 800 AM EDT...1200 UTC...INFORMATION

LOCATION...32.2N 79.4W

ABOUT 50 MI...80 KM SE OF CHARLESTON SOUTH CAROLINA

ABOUT 90 MI...145 KM E OF SAVANNAH GEORGIA

MAXIMUM SUSTAINED WINDS...45 MPH...75 KM/H

PRESENT MOVEMENT...NE OR 50 DEGREES AT 4 MPH...6 KM/H

MINIMUM CENTRAL PRESSURE...995 MB...29.39 INCHES

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY:

None.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Storm Surge Watch is in effect for...

* North of South Santee River, South Carolina to Cape Fear, North Carolina

A Tropical Storm Warning is in effect for...

* North of the Savannah River to Surf City, North Carolina

A Tropical Storm Watch is in effect for...

* North of Surf City, North Carolina to Beaufort Inlet, North Carolina

A Storm Surge Watch means there is a possibility of life-threatening inundation, from rising water moving inland from the coastline, in the indicated locations during the next 48 hours. For a depiction of areas at risk, please see the National Weather Service Storm Surge Watch/Warning Graphic, available at hurricanes.gov.

A Tropical Storm Warning means that tropical storm conditions are expected somewhere within the warning area.

A Tropical Storm Watch means that tropical storm conditions are possible within the watch area.

Interests elsewhere along the southeastern coast of the United States should monitor the progress of this system. Additional warnings may be required later today.

For storm information specific to your area, including possible inland watches and warnings, please monitor products issued by your local National Weather Service forecast office.

DISCUSSION AND OUTLOOK

At 800 AM EDT (1200 UTC), the center of Tropical Storm Debby was located by an Air Force Hurricane Hunter aircraft near latitude 32.2 North, longitude 79.4 West. Debby is moving toward the northeast near 4 mph (6 km/h). A turn toward the north and north-northwest is expected today, bringing the center of Debby to the South Carolina coast by tonight or early Thursday. A faster motion toward the north and north-northeast across the Carolinas and

the U.S. Mid-Atlantic region is expected on Thursday and Friday.

Maximum sustained winds are near 45 mph (75 km/h) with higher gusts. Some strengthening is possible today or tonight before the center of Debby reaches the coast of South Carolina. Weakening is forecast to begin on Thursday after the center moves inland. Debby is expected to merge with a frontal boundary over the U.S.

Mid-Atlantic states on Friday.

Tropical-storm-force winds extend outward up to 175 miles (280 km) from the center. A wind gust to 44 mph (70 km/h) was recently reported at Murrells Inlet South Carolina.

The estimated minimum central pressure is 995 mb (29.39 inches).

HAZARDS AFFECTING LAND

Key messages for Debby can be found in the Tropical Cyclone Discussion under AWIPS header MIATCDAT4 and WMO header WTNT44 KNHC.

WIND: Tropical storm conditions are expected to continue along the coast of South Carolina within the tropical storm warning area through Thursday. Tropical storm conditions are expected within the tropical storm warning area and possible within the tropical storm watch area in North Carolina today and continuing through Thursday.

STORM SURGE: The combination of storm surge and tide will cause normally dry areas near the coast to be flooded by rising waters moving inland from the shoreline. The water could reach the following heights above ground somewhere in the indicated areas if the peak surge occurs at the time of high tide...

South Santee River, SC to Cape Fear, NC...2-4 ft

For a complete depiction of areas at risk of storm surge inundation, please see the National Weather Service Peak Storm Surge Graphic, available at hurricanes.gov/graphics_at4.shtml?peakSurge.

RAINFALL: Debby is expected to produce an additional 3 to 9 inches

of rainfall with locally higher amounts, leading to maximum storm total amounts as high as 25 inches in South Carolina and 15 inches in southeast North Carolina, broadening the area of considerable flooding across portions of South Carolina and southeast North Carolina through Friday.

An additional 1 to 2 inches of rainfall with locally higher amounts is possible across southeast Georgia through Thursday, bringing overall storm total amounts as high as 15 inches, which may aggravate any ongoing flooding conditions.

From the Piedmont of South Carolina northward across portions of Virginia, 3 to 7 inches with local amounts to 10 inches, are expected through Friday. This rainfall will likely result in areas of considerable flash and urban flooding, with river flooding possible.

From Maryland north through Upstate New York and Vermont, 2 to 4 inches, with local amounts to 6 inches, are expected through Saturday morning. This will likely produce considerable flash and urban flooding as well as river flooding.

For a complete depiction of forecast rainfall and flash flooding associated with Debby, please see the National Weather Service Storm Total Rainfall Graphic, available at hurricanes.gov/graphics_at4.shtml?rainqpf and the Flash Flood Risk graphic at hurricanes.gov/graphics_at4.shtml?ero. For a list of rainfall observations (and wind reports) associated this storm, see the companion storm summary at WBCSCCNS4 with the WMO header ACUS44 KWBC or at the following link: www.wpc.ncep.noaa.gov/discussions/nfdsc4.html.

TORNADOES: A tornado or two may occur over eastern North Carolina and extreme eastern South Carolina through tonight.

SURF: Large swells will continue to affect the Southeast U.S. coast through the end of the week. These conditions are likely to cause life-threatening surf and rip current conditions. Please consult products from your local weather office.

NEXT ADVISORY

Next complete advisory at 1100 AM EDT.

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Forecaster Pasch/Roberts

Analysis:

Tropical Storm Debby has moved over the ocean moving very slowly, and is expected to move north back into South Carolina, riding the Atlantic coast northward. Facilities in the anticipated path should stay on the side of caution and be prepared with severe weather protocols and be prepared to evacuate if necessary. Facilities and staff should abide by any evacuation orders as they may come in and monitor local reporting on weather conditions as they may change with little notice.

Health-ISAC will continue to monitor Tropical Storm Debby and provide updates when applicable.

Sources:

[NOAA Hurricane Debby Update](#)

Reference(s): [NOAA](#)

Physical Threat Type: Natural Disaster

Tags: Debby, Tropical Storm Debby, Tropical Storm, Severe Weather, Flooding, Hurricane

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The "Share Threat Intel" feature allows for attributed or anonymous sharing across ISACs and other cybersecurity-related entities.

Turn off Categories:

For guidance on disabling alert categories, please visit the Knowledge Base article "HTIP Alert Categories" [here](#).

For Questions or Comments:

Please email us at toc@h-isac.org