

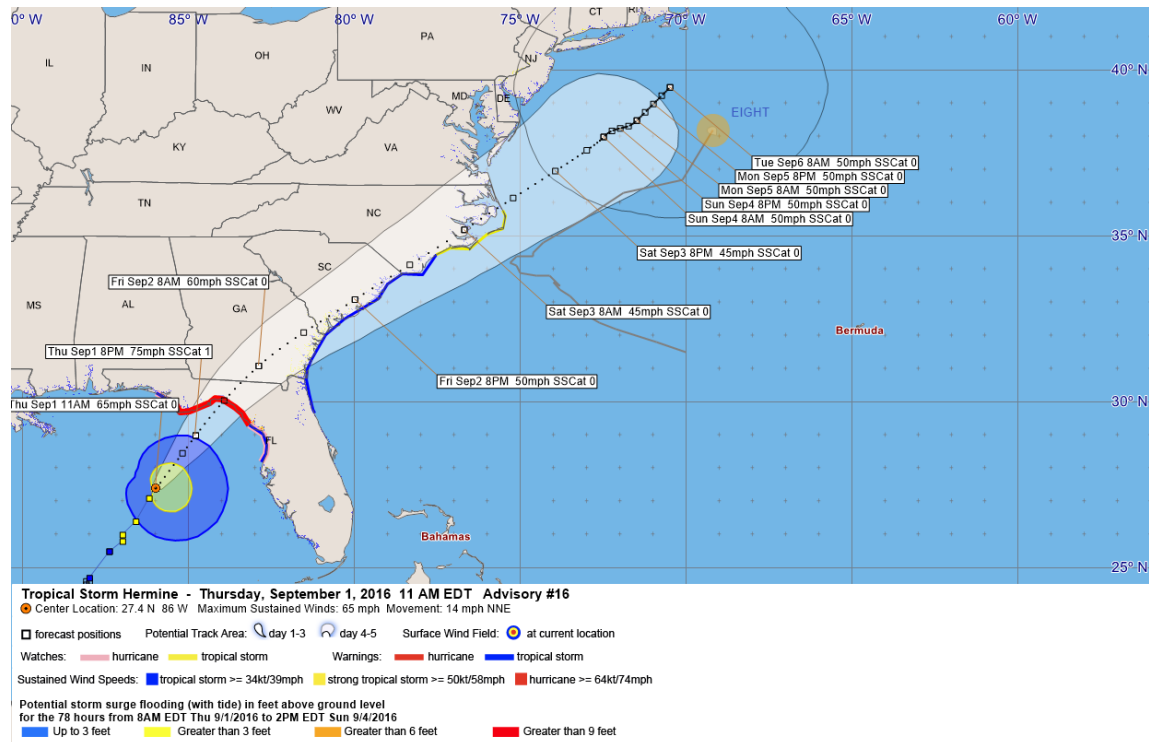
Storm Summary for Tropical Storm Hermine

Thursday, September 1, 2016 at 11 AM EDT

(Output from Hurrevac, based on National Hurricane Center Forecast Advisory #16)

Hermine is currently a tropical storm, with maximum sustained winds of 65 mph (55 kts), moving north-northeast at 14 mph. The estimated minimum central pressure is 991 mb. Tropical storm-force winds extend outward up to 140 miles (220 km) from the storm center.

Certain coastal locations are under Hurricane Warning, Hurricane Watch, Tropical Storm Warning, and Tropical Storm Watch. The geographic extents of these watches and warnings are detailed in the advisory text at the end of this report.



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WTNT34 KNHC 011457

BULLETIN
TROPICAL STORM HERMINE ADVISORY NUMBER 16
NWS NATIONAL HURRICANE CENTER MIAMI FL AL092016
1000 AM CDT THU SEP 01 2016

...HERMINE HEADING FOR THE NORTH FLORIDA GULF COAST...
...LIFE-THREATENING SURGE AND FLOODING RAINS EXPECTED...

SUMMARY OF 1000 AM CDT...1500 UTC...INFORMATION

LOCATION...27.4N 86.0W
ABOUT 170 MI...275 KM SSW OF APALACHICOLA FLORIDA
ABOUT 220 MI...350 KM W OF TAMPA FLORIDA
MAXIMUM SUSTAINED WINDS...65 MPH...100 KM/H
PRESENT MOVEMENT...NNE OR 30 DEGREES AT 14 MPH...22 KM/H
MINIMUM CENTRAL PRESSURE...991 MB...29.27 INCHES

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY:

The Tropical Storm Warning has been extended northward for the Atlantic coast to Surf City North Carolina. A Tropical Storm Watch has been issued north of Surf City to Oregon Inlet North Carolina, including Pamlico Sound. The Hurricane Watch and Tropical Storm Warning have been discontinued west of the Walton/Bay County line.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Hurricane Warning is in effect for...

- * Suwannee River to Mexico Beach

A Hurricane Watch is in effect for...

- * Anclote River to Suwannee River
- * West of Mexico Beach to the Walton/Bay County line

A Tropical Storm Warning is in effect for...

- * Anclote River to Suwannee River
- * West of Mexico Beach to the Walton/Bay County line
- * Marineland to Surf City

A Tropical Storm Watch is in effect for...

- * North of Surf City to Oregon Inlet, including Pamlico Sound

Interests elsewhere along the United States mid-Atlantic and northeast coast should monitor the progress of this system.

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 48-HOUR OUTLOOK

At 1000 AM CDT (1500 UTC), the center of Tropical Storm Hermine was located near latitude 27.4 North, longitude 86.0 West. Hermine is moving toward the north-northeast near 14 mph (22 km/h), and this motion with a slight increase in forward speed is expected during the next day or so. On the forecast track, the center of Hermine will be near the Florida coast in the hurricane warning area tonight or early Friday.

Maximum sustained winds are near 65 mph (100 km/h) with higher gusts. Additional strengthening is anticipated, and Hermine is expected to be a hurricane by the time landfall occurs.

Tropical-storm-force winds extend outward up to 140 miles (220 km) from the center.

An Air Force Hurricane Hunter aircraft recently reported a minimum central pressure of 991 mb (29.27 inches).

HAZARDS AFFECTING LAND

WIND: Hurricane conditions are expected to reach the coast within the warning area beginning tonight. Winds are expected to first reach tropical storm strength by this afternoon, making outside preparations difficult or dangerous. Preparations to protect life and property should be rushed to completion. Tropical storm conditions are expected to begin within the warning area along the Atlantic coast on Friday, and spread northward through Friday evening. Tropical storm conditions are possible in the tropical storm watch area by Friday night and Saturday.

STORM SURGE: The combination of a dangerous storm surge and the tide will cause normally dry areas near the coast to be flooded by rising waters moving inland from the shoreline. There is a danger of life-threatening inundation within the next 12 to 24 hours along the Gulf coast of Florida from Aripeka to Indian Pass. For a depiction of areas at risk, please see the Prototype National Weather Service Storm Surge Watch/Warning Graphic. Persons located within these areas should take all necessary actions to protect life and property from rising water. Promptly follow any instructions, including evacuation orders, from local officials.

The water could reach the following heights above ground if the peak surge occurs at the time of high tide...

Destin to Indian Pass...1 to 3 feet
Indian Pass to Ochlockonee River...4 to 7 feet
Ochlockonee River to Keaton Beach...5 to 8 feet
Keaton Beach to Chassahowitzka...4 to 7 feet
Chassahowitzka to Aripeka...2 to 4 feet
Aripeka to Bonita Beach...including Tampa Bay...1 to 3 feet
Florida-Georgia line to Cape Fear...1 to 3 feet

The Prototype National Weather Service Storm Surge Watch/Warning Graphic is a depiction of areas that would qualify for inclusion under a storm surge watch or warning currently under development by the National Weather Service and planned for operational use in 2017. This prototype graphic is available at www.hurricanes.gov/graphics_at4.shtml?wsurge

RAINFALL: Hermine is expected to produce storm total rainfall accumulations of 5 to 10 inches over portions of northwest Florida and southern Georgia through Friday, with possible isolated maximum amounts of 20 inches. On Friday and Saturday, Hermine is expected to produce totals of 4 to 8 inches with isolated maximum amounts of 10 inches possible across portions of eastern Georgia, South Carolina, and eastern North Carolina through Saturday. These rains may cause life-threatening flash flooding.

TORNADOES: A few tornadoes are possible this afternoon into Friday morning over north Florida and southeast Georgia. The tornado risk will continue across the eastern Carolinas from Friday morning into Friday night.

NEXT ADVISORY

Next intermediate advisory at 100 PM CDT.
Next complete advisory at 400 PM CDT.

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Forecaster Pasch

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WTNT44 KNHC 011500

TROPICAL STORM HERMINE DISCUSSION NUMBER 16
NWS NATIONAL HURRICANE CENTER MIAMI FL AL092016
1000 AM CDT THU SEP 01 2016

Hermine is gradually becoming better organized, with convective banding developing over the eastern semicircle of the circulation. Upper-level outflow continues to be restricted to the northwest of the storm by a cyclonic shear axis depicted by water vapor imagery. The current intensity is set at 55 kt in agreement with SFMR-observed surface winds from an Air Force Hurricane Hunter aircraft. The intensity forecast continues to show Hermine becoming a hurricane before landfall which is in general agreement with the numerical guidance. The global models show Hermine embedded within a frontal zone by 48 hours, so the forecast shows the system becoming extratropical at that time. There is some concern about the evolution of the post-tropical cyclone later in the forecast period, since the shear starts decreasing after 72 hours. This could allow the system to reacquire some tropical characteristics in 4-5 days, although it is not certain how close to the coast the cyclone will be by that time.

Based on Hurricane Hunter aircraft fixes and a dropsonde from the NASA Global Hawk aircraft, the initial motion is estimated to be 030/12 kt. A mid-tropospheric trough should steer the system north-northeastward to northeastward for the next couple of days. Later in the forecast period, a developing mid-level cutoff low near the northeast United States coast will cause a slowing of the forward speed as the cyclone interacts with the low. The official forecast track is essentially a blend of the latest GFS and ECMWF solutions, with the former model showing a track closer to the northeast coast and the latter taking the system farther offshore.

KEY MESSAGES:

1. It is important to not focus on the exact forecast track. Hermine is a rather asymmetric storm, with a large extent of dangerous winds, life-threatening storm surge, and flooding rains well to the east and southeast of the path of the center.

2. Hermine is expected to undergo a complex interaction with a frontal system when it reaches the Carolinas over the weekend. It is a little early to say what the specific impacts will be for the mid-Atlantic and northeastern states.

FORECAST POSITIONS AND MAX WINDS

INIT	01/1500Z	27.4N	86.0W	55 KT	65 MPH
12H	02/0000Z	29.0N	84.8W	65 KT	75 MPH
24H	02/1200Z	31.1N	82.9W	50 KT	60 MPH...INLAND
36H	03/0000Z	33.1N	80.0W	45 KT	50 MPH...INLAND
48H	03/1200Z	35.2N	76.7W	40 KT	45 MPH...POST-TROP/EXTRATROP
72H	04/1200Z	38.0N	72.5W	45 KT	50 MPH...POST-TROP/EXTRATROP
96H	05/1200Z	38.5N	71.5W	45 KT	50 MPH...POST-TROP/EXTRATROP
120H	06/1200Z	39.5N	70.5W	45 KT	50 MPH...POST-TROP/EXTRATROP

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Forecaster Pasch