

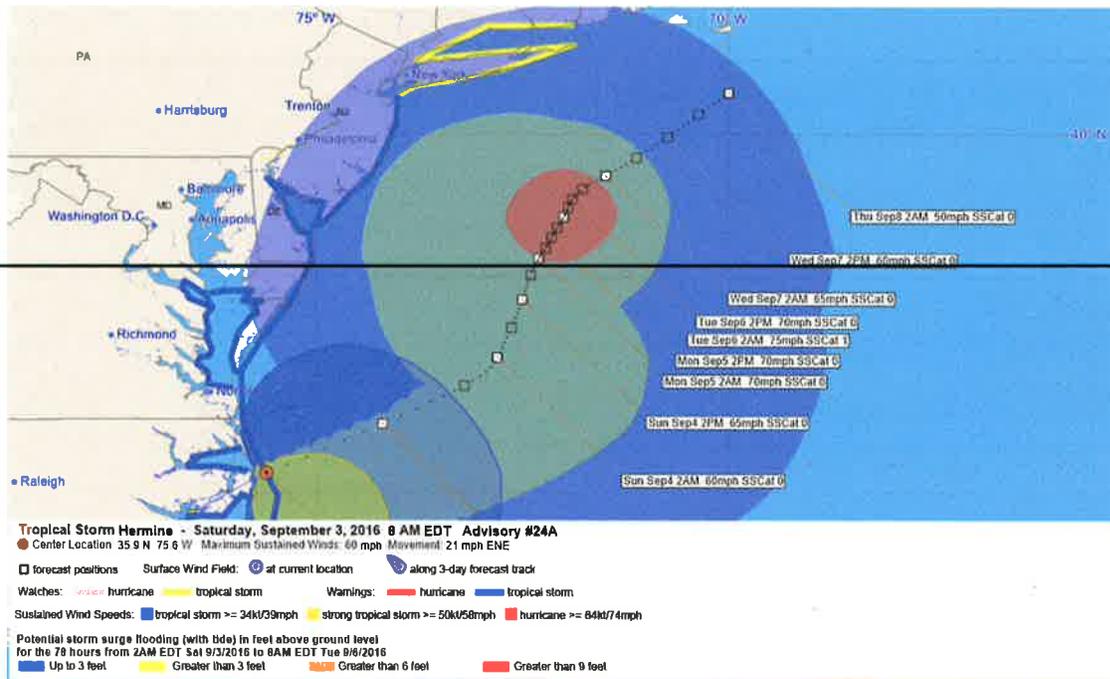
Storm Summary for Tropical Storm Hermine

Saturday, September 03, 2016 at 8 AM EDT

(Output from Hurrevac, based on National Hurricane Center Forecast Advisory #24A)

Hermine is currently a tropical storm, with maximum sustained winds of 60 mph (50 kts), moving east-northeast at 21 mph. The estimated minimum central pressure is 995 mb. Tropical storm-force winds extend outward up to 185 miles (295 km) from the storm center.

Certain coastal locations are under 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.



Wind Analysis for Monmouth, NJ

(Based upon Tropical Storm HERMINE Advisory #24A)

Wind Probabilities

Newark, NJ, the closest reporting location, has within the 5-day forecast period of this advisory, a 2% chance of hurricane-force (64kt/74mph or greater) winds, a 10% chance of at least strong tropical storm-force (50kt/58mph) winds, and a 47% chance of at least tropical storm-force (34kt/39mph) winds.

Peak Wind*

Winds in Monmouth, NJ are projected to peak at 46kt/53mph around 1 AM on Monday, September 05, 2016

Wind Arrival and Duration*

Tropical storm-force winds (34kt/39mph) are forecast to begin in Monmouth, NJ on Sunday, September 04, 2016 at 9 AM. Winds of this magnitude or higher are forecast to continue for 48 or more hours.

50kt/58mph winds are not forecast for Monmouth, NJ.

64kt/74mph winds are not forecast for Monmouth, NJ.

* These wind estimations are limited to the first 72 hours (3 days) following advisory issuance, and are subject to considerable forecast uncertainty and generalization, especially if the storm is distant. Maximum sustained winds (the highest surface wind maintained over a 1 minute period) are reported here. Wind gusts and winds at higher elevations will be greater.

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WTNT34 KNHC 031138

BULLETIN
TROPICAL STORM HERMINE INTERMEDIATE ADVISORY NUMBER 24A
NWS NATIONAL HURRICANE CENTER MIAMI FL AL092016
800 AM EDT SAT SEP 03 2016

...HERMINE MOVING ACROSS THE NORTHERN OUTER BANKS OF NORTH
CAROLINA...
...WATER LEVELS RISING RAPIDLY IN THE HAMPTON ROADS AREA...

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

LOCATION...35.9N 75.6W
ABOUT 10 MI...15 KM NNW OF OREGON INLET NORTH CAROLINA
ABOUT 250 MI...40 KM SSE OF DUCK NORTH CAROLINA
MAXIMUM SUSTAINED WINDS...60 MPH...95 KM/H
PRESENT MOVEMENT...ENE OR 60 DEGREES AT 21 MPH...33 KM/H
MINIMUM CENTRAL PRESSURE...995 MB...29.38 INCHES

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY:

The Tropical Storm Warning has been discontinued south of Ocracoke Inlet, North Carolina.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Tropical Storm Warning is in effect for...
* Ocracoke Inlet to Sandy Hook
* Pamlico and Albemarle Sounds
* Chesapeake Bay from Drum Point southward
* Tidal Potomac from Cobb Island eastward
* Delaware Bay

A Tropical Storm Watch is in effect for...
* North of Sandy Hook to west of Watch Hill

Interests elsewhere along the United States northeast coast should monitor the progress of this system. Additional watches or warnings may be required for portions of this area 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 48-HOUR OUTLOOK

At 800 AM EDT (1200 UTC), the center of Tropical Storm Hermine was located by NOAA Doppler radar and surface observations near the northern Outer Banks of North Carolina near latitude 35.9 North, longitude 75.6 West. Hermine is moving toward the east-northeast near 21 mph (33 km/h), and this general motion with a decrease in forward speed is forecast to continue today. A gradual turn toward

the north is expected on Sunday. On the forecast track, the center of Hermine will emerge over the Atlantic very soon, and then slow down and meander offshore of the Delmarva Peninsula tonight and Sunday.

Maximum sustained winds remain near 60 mph (95 km/h) with higher gusts. Strengthening is forecast after the center moves over water, and Hermine could be near hurricane intensity by Sunday.

Tropical-storm-force winds extend outward up to 185 miles (295 km) mainly to the south and east of the center. Elizabeth City, North Carolina, recently reported a sustained wind of 32 mph (52 km/h) and a wind gust of 52 mph (83 km/h). A National Ocean Service station at Rappahannock Light, Virginia, recently reported a sustained wind of 40 mph (64 km/h), and a wind gust of 45 mph (72 km/h).

The estimated minimum central pressure based on surface observations is 995 mb (29.38 inches). A National Ocean Service station at Oregon Inlet Marina, North Carolina, recently reported a pressure of 996.6 mb (29.41 inches).

HAZARDS AFFECTING LAND

WIND: Tropical storm conditions will continue to spread northward within the warning area along the Atlantic coast through Sunday. Tropical storm conditions are possible in the watch area by late Sunday or Sunday night.

STORM SURGE: The combination of a 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 during the next 12 hours in the Hampton Roads area, where water levels are rapidly rising with the approach of the next high tide. Persons within this area should take all necessary actions to protect life and property from rising water. Promptly follow all instructions, including evacuation orders, from local officials. There is also the possibility of life-threatening inundation during the next 48 hours at most coastal locations between the North Carolina/Virginia border and Bridgeport, Connecticut.

For a depiction of areas at risk, please see the Prototype Storm Surge Watch/Warning graphic, which displays 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. The Prototype Graphic is available at www.hurricanes.gov/graphics_at4.shtml?wsurge

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

North Carolina coast...1 to 3 feet
Hampton Roads area...3 to 5 feet
Elsewhere from the NC/VA border to Bridgeport, CT...2 to 4 feet

RAINFALL: Hermine is expected to produce total rainfall accumulations of 4 to 7 inches over far southeastern Virginia and the Atlantic coastal portion of Maryland through Monday morning. Hermine is expected to produce total rainfall accumulations of 1 to

4 inches over southern Delaware, southern and eastern New Jersey, and Long Island through Monday morning. Moisture wrapping around Hermine and trailing back to the south will produce an additional 1 to 3 inches of rain over parts of North Carolina and northern Florida. This rainfall may contribute to flooding in some areas.

SURF: Swells generated by Hermine will affect much of the U.S. mid-Atlantic coast through the weekend. These swells are likely to cause life-threatening surf and rip current conditions, and significant beach erosion. Please consult products from your local weather office.

NEXT ADVISORY

Next complete advisory at 1100 AM EDT.

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Forecaster Brennan

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WTNT44 KNHC 030855

TROPICAL STORM HERMINE DISCUSSION NUMBER 24
NWS NATIONAL HURRICANE CENTER MIAMI FL AL092016
500 AM EDT SAT SEP 03 2016

Satellite, radar and surface observations continue to show that the circulation of Hermine is elongated with most of the convection well removed from the area of lowest pressure. It appears that Hermine has already begun the process of extratropical transition. Based on earlier satellite-derived winds, the initial intensity remains 50 kt. These winds are occurring over water well removed from the center in the southeast quadrant.

As indicated in the previous NHC discussion, during the next day or two, Hermine is expected to undergo a complex interaction with a mid- to upper-level baroclinic trough that is developing over the eastern United States. After that time, the dynamical models forecast the upper trough to cut off directly over the surface cyclone, and the surface cyclone could regain some tropical cyclone characteristics, even though it would be under the upper-level low. By then, the strongest winds are expected to be closer to the center. Nevertheless, the dynamical guidance forecasts Hermine to strengthen during this evolution regardless of its final structure, and the NHC forecast is basically an update of the previous one. Given the uncertainty in the structure and evolution, the forecast keeps the cyclone as post-tropical after 24 hours.

The initial motion is difficult to estimate given that Hermine's circulation is elongated, but cyclone appears to be moving toward the east-northeast or 060 degrees at 18 kt. The cyclone is forecast to turn more toward the northeast in about 24 hours, and then turn northward with a significant decrease in forward speed as interacts with the upper-level trough, and the steering currents weaken. After day 4, the cyclone should then move eastward with the mid-latitude flow. The track forecast is a blend between the

previous NHC one and the multi-model consensus TVCN.

KEY MESSAGES:

1. Hermine is expected to become a post-tropical cyclone while still producing hazardous winds and storm surge over land. NWS policy allows NHC to write advisories on and issue tropical storm watches and warnings for post-tropical cyclones, when the system continues to pose a significant threat to life and property. NHC and the NWS Eastern Region have decided that this option will be invoked for Hermine. After Hermine becomes a post-tropical cyclone, NHC will continue to issue its full suite of advisory and warning products for as long as the system remains a significant threat to land.

2. There is still considerable uncertainty as to how many of the characteristics of a tropical cyclone Hermine will have while it is off of the coast of the Mid-Atlantic and New England States. Regardless of its structure, Hermine is expected to be a vigorous storm with a large wind field that will cause wind, storm surge and surf hazards along the coast.

FORECAST POSITIONS AND MAX WINDS

INIT	03/0900Z	35.4N	76.5W	50 KT	60 MPH...	ON THE COAST
12H	03/1800Z	36.5N	74.2W	50 KT	60 MPH...	OVER WATER
24H	04/0600Z	37.3N	72.8W	50 KT	60 MPH...	POST-TROPICAL
36H	04/1800Z	38.0N	72.5W	55 KT	65 MPH...	POST-TROPICAL
48H	05/0600Z	38.5N	72.3W	60 KT	70 MPH...	POST-TROPICAL
72H	06/0600Z	39.0N	72.0W	65 KT	75 MPH...	POST-TROPICAL
96H	07/0600Z	39.5N	71.5W	55 KT	65 MPH...	POST-TROPICAL
120H	08/0600Z	40.5N	70.0W	45 KT	50 MPH...	POST-TROPICAL

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Forecaster Avila