

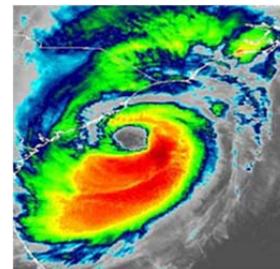
eVENT Hurricane Tracking Advisory

WillisRe 

Hurricane Dorian

Information from NHC Advisory 48A, 8:00 AM EDT Thu Sep 05, 2019

On the forecast track, the center of Dorian will continue to move close to the coast of South Carolina today, and then move near or over the coast of North Carolina tonight and Friday. The center should move to the southeast of extreme southeastern New England Friday night and Saturday morning, and approach Nova Scotia later on Saturday. Maximum sustained winds are near 115 mph (185 km/h) with higher gusts. Dorian is a category 3 hurricane on the Saffir-Simpson Hurricane Wind Scale. Some fluctuations in intensity are expected this morning, followed by slow weakening through Saturday. However, Dorian is expected to remain a hurricane for the next few days.

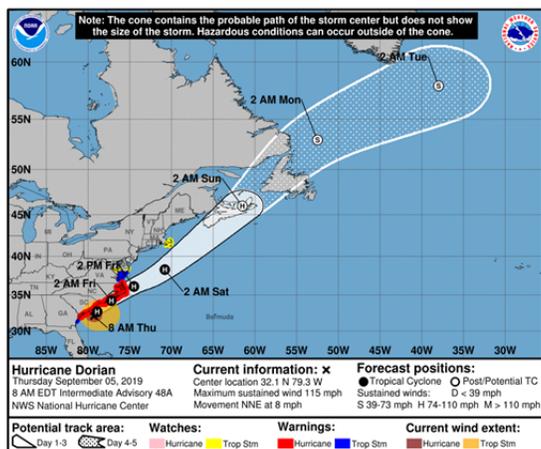


Intensity Measures		Position & Heading		U.S. Landfall (NHC)	
Max Sustained Wind Speed:	115 mph (Category 3)	Position Relative to Land:	70 mi SSE of Charleston SC 170 mi SSW of Wilmington NC	Est. Time & Region:	Possibly the Carolinas over Thursday & Friday
Min Central Pressure:	959 mb	Coordinates:	31.7 N, 79.5 W		
Trop. Storm Force Winds Extent:	195 miles	Bearing/Speed:	NNE or 105 degrees at 8 mph	Est. Max Sustained Wind Speed:	100 mph (Category 2)

Forecast Summary

- The NHC forecast map (below left) and the wind-field map (below right), which is based on the NHC's forecast track, both show Dorian continue to move close to the coast of South Carolina through the day, and then move near or over the coast of North Carolina tonight and Friday. To illustrate the uncertainty in Dorian's forecast track, forecast tracks for all current models are shown on the windfield map in pale gray.
- Tropical storm conditions are currently affecting portions of the Georgia and southern South Carolina coasts, and should begin along other portions of the North Carolina coast during the next several hours, with hurricane conditions beginning later today. Tropical storm conditions will begin elsewhere within the Hurricane Warning area in the Carolinas later today, with hurricane conditions beginning by late tonight and Friday. Tropical storm conditions are expected in the Tropical Storm Warning area in the Mid-Atlantic states by Friday, with tropical storm conditions possible in the Tropical Storm Watch area Friday or Friday night. Tropical storm conditions are possible over portions of southeastern Massachusetts by late Friday or early Saturday. Tropical storm conditions along the northeastern Florida coast should subside tonight.
- 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. 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: 5-8 ft along Isle of Palms to Myrtle Beach SC, 4-7 ft along Myrtle Beach SC to Duck NC, including Pamlico and Albemarle Sounds and the Neuse and Pamlico Rivers; 2-4 ft along Duck NC to Poquoson VA including Hampton Roads and the Savannah River to Isle of Palms SC.
- Dorian is expected to produce the following rainfall totals through Friday: 6 to 12 inches, isolated 15 inches, over Coastal Carolinas; 3 to 8 inches over far southeast Virginia; 1 to 2 inches, over Coastal Georgia, 2 to 4 inches over extreme southeastern New England. This rainfall may cause life-threatening flash floods.
- Large swells will affect the northwestern Bahamas, and the entire southeastern United States coast from Florida through North Carolina during the next several days. These swells are likely to cause life-threatening surf and rip current conditions. A few tornadoes are possible through this afternoon near the coastal South and North Carolina border area. This threat will expand northeastward across the rest of eastern North Carolina during the afternoon and continue into tonight.

Forecast Track for Hurricane Dorian



Forecast Wind-field for Hurricane Dorian



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Hazard and damage potential maps produced by Willis are based on numerical modeling results from Kinetic Analysis Corporation.



Coastal Watches and Warnings

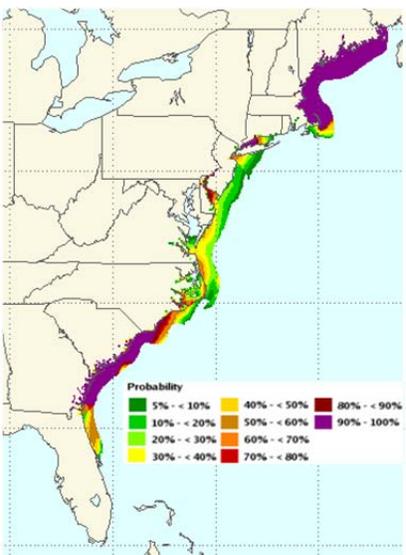
A Hurricane Warning – meaning that hurricane conditions are expected somewhere within the warning area- is in effect for Savannah River to the North Carolina/Virginia border and Pamlico and Albemarle Sounds. A Tropical Storm Warning – meaning tropical storm conditions are expected within the warning area within 36 hours – is in effect for North Carolina/Virginia border to Chincoteague VA, Chesapeake Bay from Smith Point southward. A Tropical Storm Watch – meaning tropical storm conditions are possible within the warning area within 48 hours – is in effect for North of Chincoteague VA to Fenwick Island DE, Chesapeake Bay from Smith Point to Drum Point, Tidal Potomac south of Cobb Island, Woods Hole to Sagamore Beach and Nantucket and Martha's Vineyard MA.

Storm Surge Watches, Warnings, and Potential

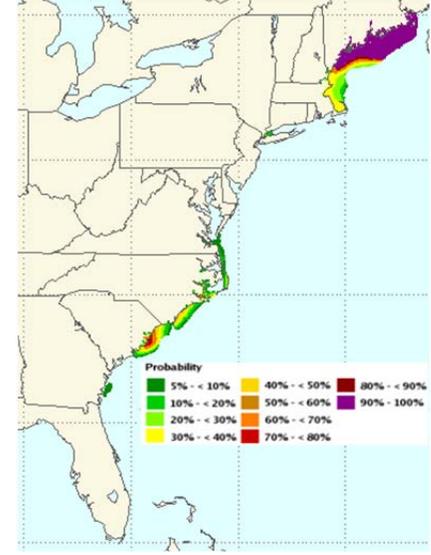
The images at right show the NHC's probabilities for a storm surge exceeding 3 feet (near right) and 5 feet (far right). For the 77 hours from 01 AM EST Thu Sep 5 to 7 AM EST Sun Sep 09. Probabilities for a surge exceeding 5 feet are highest along the coasts of South Carolina (70-80%), and Maine (90-100%).

A Storm Surge warning – meaning there is a danger of life-threatening inundation, from rising water moving inland from the coastline during the next 36 hours – is in effect for: Savannah River to Poquoson VA, Pamlico and Albemarle Sounds, Neuse and Pamlico Rivers, Hampton Roads

Probability of Surge exceeding 3 feet



Probability of Surge exceeding 5 feet

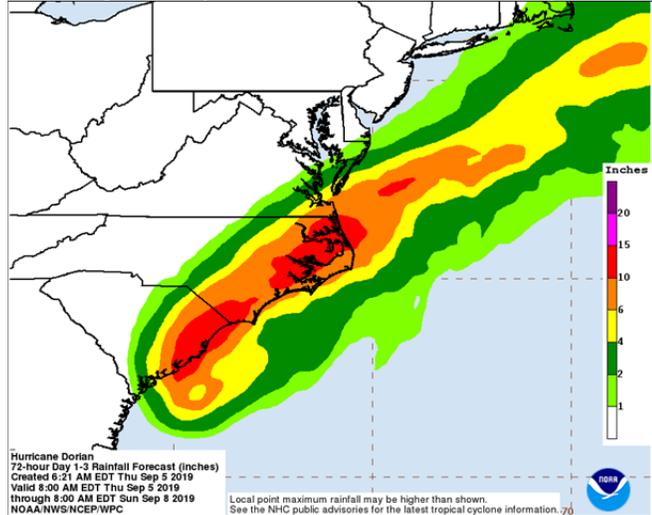


Rainfall Potential and Most Likely Arrival Time of Tropical Storm Force Winds

72-Hour Rainfall Potential

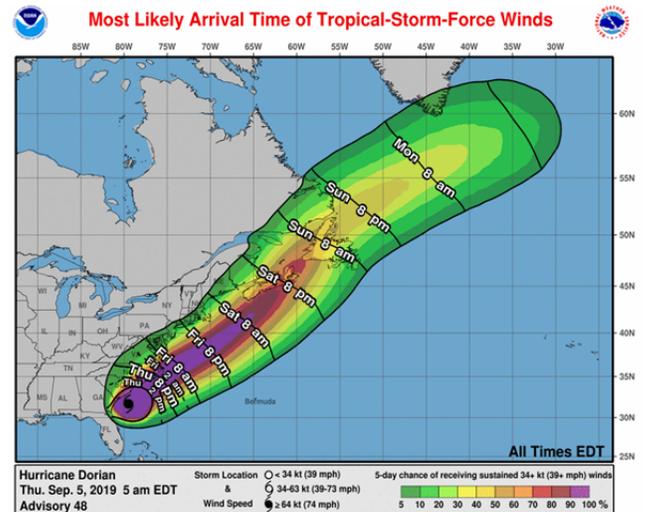
The graphic below shows rainfall potential over the next three days. Dorian could bring upwards of 15 inches of rain in the coming days to certain areas.

Three day rainfall potential at 6:21 AM EDT Thu Sep 05 2019



Most Likely Arrival Time of Tropical-Storm-Force Winds

The graphic below shows the most likely arrival time of tropical storm force winds - the time before or after which the onset of tropical-storm-force winds is equally likely. It also shows probabilities of sustained (1-minute average) surface wind speeds equal to or exceeding 34 kt (39 mph) for the next five days. This graphic is based on the official National Hurricane Center (NHC) track, intensity, and wind radii forecasts, and on NHC forecast error statistics for those forecast variables during recent years.



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