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Hurricane Florence Public Advisory

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BULLETIN

Hurricane Florence Advisory Number 52
 NWS National Hurricane Center Miami FL AL062018
 500 AM EDT Wed Sep 12 2018

...DANGEROUS FLORENCE HEADING TOWARD THE U.S. EAST COAST...
 ...EXPECTED TO BRING LIFE-THREATENING STORM SURGE AND RAINFALL TO
 PORTIONS OF THE CAROLINAS AND MID-ATLANTIC STATES...

SUMMARY OF 500 AM EDT...0900 UTC...INFORMATION

 LOCATION...29.0N 70.1W
 ABOUT 575 MI...925 KM SE OF CAPE FEAR NORTH CAROLINA
 MAXIMUM SUSTAINED WINDS...130 MPH...215 KM/H
 PRESENT MOVEMENT...WNW OR 300 DEGREES AT 17 MPH...28 KM/H
 MINIMUM CENTRAL PRESSURE...946 MB...27.94 INCHES

WATCHES AND WARNINGS**CHANGES WITH THIS ADVISORY:**

A Tropical Storm Warning has been issued from north of Duck North Carolina to the North Carolina-Virginia border. The Hurricane Watch for this area has been discontinued.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

- A Storm Surge Warning is in effect for...
- * South Santee River South Carolina to Duck North Carolina
 - * Albemarle and Pamlico Sounds, including the Neuse and Pamlico Rivers
- A Storm Surge Watch is in effect for...
- * Edisto Beach South Carolina to South Santee River South Carolina
 - * North of Duck North Carolina to the North Carolina/Virginia border
- A Hurricane Warning is in effect for...
- * South Santee River South Carolina to Duck North Carolina
 - * Albemarle and Pamlico Sounds
- A Hurricane Watch is in effect for...
- * Edisto Beach South Carolina to South Santee River South Carolina
- A Tropical Storm Warning is in effect for...
- * North of Duck North Carolina to the North Carolina/Virginia border
- A Tropical Storm Watch is in effect for...
- * North of the North Carolina/Virginia border to Cape Charles Light Virginia
 - * Chesapeake Bay south of New Point Comfort

Interests elsewhere in the southeastern and mid-Atlantic states should monitor the progress of Florence.

A Storm Surge Warning means there is a danger of life-threatening inundation, from rising water moving inland from the coastline, during the next 36 hours in the indicated locations. For a

depiction of areas at risk, please see the National Weather Service Storm Surge Watch/Warning Graphic, available at hurricanes.gov. This is a life-threatening situation. Persons located within these areas should take all necessary actions to protect life and property from rising water and the potential for other dangerous conditions. Promptly follow evacuation and other instructions from local officials.

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.

A Hurricane Warning means that hurricane conditions are expected somewhere within the warning area. A warning is typically issued 36 hours before the anticipated first occurrence of tropical-storm-force winds, conditions that make outside preparations difficult or dangerous. Preparations to protect life and property should be rushed to completion.

A Hurricane Watch means that hurricane conditions are possible within the watch area. A watch is typically issued 48 hours before the anticipated first occurrence of tropical-storm-force winds, conditions that make outside preparations difficult or dangerous.

A Tropical Storm Warning means that tropical storm conditions are expected somewhere within the warning area within 36 hours.

A Tropical Storm Watch means that tropical storm conditions are possible within the watch area, generally within 48 hours.

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 500 AM EDT (0900 UTC), the center of Hurricane Florence was located near latitude 29.0 North, longitude 70.1 West. Florence is moving toward the west-northwest near 17 mph (28 km/h). A motion toward the west-northwest and northwest is expected through Thursday. Florence is expected to slow down considerably by late Thursday into Friday, and move through early Saturday. On the forecast track, the center of Florence will move over the southwestern Atlantic Ocean between Bermuda and the Bahamas today, and approach the coast of North Carolina or South Carolina in the hurricane warning area on Thursday and Friday.

Maximum sustained winds are near 130 mph (215 km/h) with higher gusts. Florence is a category 4 hurricane on the Saffir-Simpson Hurricane Wind Scale. Strengthening is forecast through tonight. While some weakening is expected on Thursday, Florence is forecast to be an extremely dangerous major hurricane when it nears the U.S. coast.

Hurricane-force winds extend outward up to 70 miles (110 km) from the center and tropical-storm-force winds extend outward up to 175 miles (280 km).

The estimated minimum central pressure is 946 mb (27.94 inches).

HAZARDS AFFECTING LAND

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

Cape Fear to Cape Lookout, including the Neuse, Pamlico, Pungo, and Bay Rivers...9-13 ft
 North Myrtle Beach to Cape Fear...6-9 ft
 Cape Lookout to Ocracoke Inlet...6-9 ft
 South Santee River to North Myrtle Beach...4-6 ft
 Ocracoke Inlet to North Carolina/Virginia Border...4-6 ft
 Edisto Beach to South Santee River...2-4 ft

The deepest water will occur along the immediate coast in areas of onshore winds, where the surge will be accompanied by large and

destructive waves. Surge-related flooding depends on the relative timing of the surge and the tidal cycle, and can vary greatly over short distances. For information specific to your area, please see products issued by your local National Weather Service forecast office.

RAINFALL: Florence is expected to produce heavy and excessive rainfall in the following areas...

Coastal North Carolina...20 to 30 inches, isolated 40 inches
 South Carolina, western and northern North Carolina...5 to 10 inches, isolated 20 inches
 Elsewhere in the Appalachians and Mid-Atlantic states...3 to 6 inches, isolated 12 inches

This rainfall would produce catastrophic flash flooding and significant river flooding.

WIND: Hurricane conditions are expected to reach the coast within the hurricane warning area on Friday. Winds are expected to first reach tropical storm strength on Thursday, making outside preparations difficult or dangerous. Preparations to protect life and property should be rushed to completion.

SURF: Swells generated by Florence are affecting Bermuda and portions of the U.S. East Coast. These swells are likely to cause life-threatening surf and rip current conditions. Please consult products from your local weather office.

NEXT ADVISORY

 Next intermediate advisory at 800 AM EDT.
 Next complete advisory at 1100 AM EDT.

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 Forecaster Brown

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Tropical Cyclone Advisories
 Tropical Weather Outlook
 Audio/Podcasts
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MARINE FORECASTS

Offshore Waters Forecasts
 Gridded Forecasts
 Graphcast
 About Marine

SOCIAL MEDIA

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 "Inside the Eye"

HURRICANE PREPAREDNESS

Preparedness Guide
 Hurricane Hazards
 Watches and Warnings
 Marine Safety
 Ready.gov Hurricanes
 Weather-Ready Nation
 Emergency Management Offices

RESEARCH AND DEVELOPMENT

NOAA Hurricane Research Division
 Joint Hurricane Testbed
 Hurricane Forecast Improvement Program

OTHER RESOURCES

Q & A with NHC
 NHC/AOML Library Branch
 NOAA: Hurricane FAQs
 National Hurricane Operations Plan
 WX4NHC Amateur Radio

NWS FORECAST OFFICES

Weather Prediction Center
 Storm Prediction Center
 Ocean Prediction Center
 Local Forecast Offices
 Central Pacific Hurricane Center

WORLDWIDE TROPICAL CYCLONE CENTERS

Canadian Hurricane Centre
 Joint Typhoon Warning Center
 Other Tropical Cyclone Centers
 WMO Severe Weather Info Centre



US Dept of Commerce
 National Oceanic and Atmospheric Administration
 National Hurricane Center
 11691 SW 17th Street
 Miami, FL, 33165
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