



NATIONAL HURRICANE CENTER and CENTRAL PACIFIC HURRICANE CENTER

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION



Hurricane Dorian Public Advisory

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WTNT35 KNHC 030853
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BULLETIN

Hurricane Dorian Advisory Number 40
NWS National Hurricane Center Miami FL AL052019
500 AM EDT Tue Sep 03 2019

...DORIAN STILL NEARLY STATIONARY BUT EXPECTED TO BEGIN MOVING
NORTH-NORTHWESTWARD LATER THIS MORNING...
...CONTINUES TO POUND GRAND BAHAMA ISLAND...

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

LOCATION...26.9N 78.4W
ABOUT 35 MI...55 KM NE OF FREEPORT GRAND BAHAMA ISLAND
ABOUT 105 MI...170 KM E OF WEST PALM BEACH FLORIDA
MAXIMUM SUSTAINED WINDS...120 MPH...195 KM/H
PRESENT MOVEMENT...STATIONARY
MINIMUM CENTRAL PRESSURE...950 MB...28.06 INCHES

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY:

A Tropical Storm Warning has been issued north of Ponte Vedra Beach Florida to Altamaha Sound Georgia.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Storm Surge Warning is in effect for...
* Lantana FL to Savannah River

A Storm Surge Watch is in effect for...
* North of Deerfield Beach FL to south of Lantana FL
* Savannah River to South Santee River SC

A Hurricane Warning is in effect for...
* Grand Bahama and the Abacos Islands in the northwestern Bahamas
* Jupiter Inlet FL to Ponte Vedra Beach FL

A Hurricane Watch is in effect for...
* North of Deerfield Beach FL to Jupiter Inlet FL
* North of Ponte Vedra Beach FL to South Santee River SC

A Tropical Storm Warning is in effect for...
* North of Deerfield Beach FL to Jupiter Inlet FL
* North of Ponte Vedra Beach FL to Altamaha Sound GA

A Tropical Storm Watch is in effect for...
* North of Golden Beach FL to Deerfield Beach FL
* Lake Okeechobee

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. 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 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.

Interests elsewhere along the southeast and Mid-Atlantic coasts of the United States should continue to monitor the progress of Dorian, as additional watches or warnings may be required today.

For storm information specific to your area in the United States, including possible inland watches and warnings, please monitor products issued by your local National Weather Service forecast office. For storm information specific to your area outside of the United States, please monitor products issued by your national meteorological service.

DISCUSSION AND OUTLOOK

At 500 AM EDT (0900 UTC), the eye of Hurricane Dorian was located by NOAA Doppler radar near latitude 26.9 North, longitude 78.4 West. Dorian is stationary just north of Grand Bahama Island. A slow north-northwestward motion is expected to begin this morning. A turn to the north is forecast by Wednesday evening, followed by a turn to the north-northeast Thursday morning. On this track, the core of extremely dangerous Hurricane Dorian will continue to pound Grand Bahama Island today. The hurricane will then move dangerously close to the Florida east coast late today through Wednesday evening, very near the Georgia and South Carolina coasts Wednesday night and Thursday, and near or over the North Carolina coast late Thursday.

Maximum sustained winds are near 120 mph (195 km/h) with higher gusts. Dorian is a category 3 hurricane on the Saffir-Simpson Hurricane Wind Scale. Dorian is expected to remain a powerful hurricane during the next couple of days.

Hurricane-force winds extend outward up to 45 miles (75 km) from the center, and tropical-storm-force winds extend outward up to 160 miles (260 km). A wind gust to 61 mph (98 km/h) was recently reported at Juno Beach Pier, Florida.

The estimated minimum central pressure is 950 mb (28.06 inches).

HAZARDS AFFECTING LAND

WIND: Devastating hurricane conditions continue on Grand Bahama Island.

Hurricane conditions are expected within the Hurricane Warning area in Florida by this evening. Hurricane conditions are possible in the Hurricane Watch area beginning Wednesday.

In South Florida, tropical storm conditions are expected within the Tropical Storm Warning area through today, and are possible in the Tropical Storm Watch area through this morning. Along the coast of northeastern Florida and Georgia, tropical storm conditions are expected within the Tropical Storm Warning area on Wednesday.

STORM SURGE: A life-threatening storm surge will raise water levels by as much as 10 to 15 feet above normal tide levels in areas of onshore winds on Grand Bahama Island. Near the coast, the surge will be accompanied by large and destructive waves. Water levels should very slowly subside on the Abaco Islands today.

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...

Lantana FL to South Santee River SC...4 to 7 ft
North of Deerfield Beach FL to Lantana FL...2 to 4 ft

Water levels could begin to rise well in advance of the arrival of strong winds. The surge will be accompanied by large and destructive waves. Surge-related flooding depends on the how close the center of Dorian comes to the coast, 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: Dorian is expected to produce the following rainfall totals through Friday:

Northwestern Bahamas...Additional 3 to 6 inches, isolated storm totals over 30 inches.
Coastal Carolinas...5 to 10 inches, isolated 15 inches.
Atlantic Coast from the Florida peninsula north of West Palm Beach through Georgia...3 to 6 inches, isolated 9 inches.
Southeast Virginia...2 to 4 inches, isolated 6 inches.

This rainfall may cause life-threatening flash floods.

SURF: Large swells are affecting the northwestern Bahamas, the Florida east coast, and the coast of Georgia. These swells are expected to spread northward along much of the remainder of the southeastern United States coast during the next couple of days. These swells are likely to cause life-threatening surf and rip current conditions. Please consult products from your local weather office.

TORNADOES: A tornado or two is possible near the immediate east coast of Florida through tonight. This risk will shift to immediate coastal Georgia and the coastal Carolinas on Wednesday into Thursday.

NEXT ADVISORY

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

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Forecaster Pasch

Quick Links and Additional Resources

TROPICAL CYCLONE FORECASTS

- Tropical Cyclone Advisories
- Tropical Weather Outlook
- Audio/Podcasts
- About Advisories

MARINE FORECASTS

- Offshore Waters Forecasts
- Gridded Forecasts
- Graphicast
- About Marine

SOCIAL MEDIA

- NHC on Facebook
- Twitter
- YouTube
- NHC Blog: "Inside the Eye"

HURRICANE PREPAREDNESS

- Preparedness Guide
- Hurricane Hazards
- Watches and Warnings
- Marine Safety
- Ready.gov Hurricanes | en Español
- 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

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
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