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### Hurricane Dorian Public Advisory

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U.S. Watch/Warning Local Products

282 WTNT35 KNHC 021450 TCPAT5

BULLETIN

Hurricane Dorian Advisory Number 37 NWS National Hurricane Center Miami FL 1100 AM EDT Mon Sep 02 2019

AL052019

...GRAND BAHAMA ISLAND CONTINUES TO EXPERIENCE CATASTROPHIC WINDS AND STORM SURGE AS DORIAN INCHES WESTWARD...

SUMMARY OF 1100 AM EDT...1500 UTC...INFORMATION

LOCATION...26.8N 78.3W

ABOUT 30 MI...50 KM NE OF FREEPORT GRAND BAHAMA ISLAND ABOUT 110 MI...180 KM E OF WEST PALM BEACH FLORIDA MAXIMUM SUSTAINED WINDS...155 MPH...250 KM/H PRESENT MOVEMENT...W OR 280 DEGREES AT 1 MPH...2 KM/H

MINIMUM CENTRAL PRESSURE...922 MB...27.23 INCHES

425 miles SSE OF Sullivoin's Island

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY:

The Storm Surge Warning has been extended northward along the east coast of Florida to the Flagler/Volusia County Line.

The Storm Surge Watch has been extended northward along the Georgia coast to the Savannah River.

The Hurricane Warning along the east coast of Florida has been extended northward to the Flagler/Volusia County Line.

The Hurricane Watch has been extended northward to Altamaha Sound Georgia.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Storm Surge Warning is in effect for...

\* Lantana to the Flagler/Volusia County Line

A Storm Surge Watch is in effect for...

\* North of Deerfield Beach to south of Lantana

\* Flagler/Volusia County Line to the Savannah River

A Hurricane Warning is in effect for...

\* Grand Bahama and the Abacos Islands in the northwestern Bahamas

\* Jupiter Inlet to the Flagler/Volusia County Line

A Hurricane Watch is in effect for...

\* North of Deerfield Beach to Jupiter Inlet

\* Flagler/Volusia County Line to the Altamaha Sound Georgia

A Tropical Storm Warning is in effect for...

\* North of Deerfield Beach to Jupiter Inlet

A Tropical Storm Watch is in effect for...

\* North of Golden Beach to Deerfield Beach

\* 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 lifethreatening 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 southeast coast of the United States should continue to monitor the progress of Dorian, as additional watches may be required later 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 1100 AM EDT (1500 UTC), the eye of Hurricane Dorian was located near latitude 26.8 North, longitude 78.3 West. Dorian is moving very slowly toward the west near 1 mph (2 km/h). A slow westward to west-northwestward motion is forecast during the next day or so, followed by a gradual turn toward the northwest and north. On this track, the core of extremely dangerous Hurricane Dorian will continue to pound Grand Bahama Island through much of today and tonight. The hurricane will then move dangerously close to the Florida east coast late tonight through Wednesday evening and then move dangerously close to the Georgia and South Carolina coasts on Wednesday night and Thursday.

Maximum sustained winds are near 155 mph (250 km/h) with higher gusts. Dorian is an extremely dangerous category 4 hurricane on the Saffir-Simpson Hurricane Wind Scale. Although gradual weakening is forecast, 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 140 miles (220 km).

The estimated minimum central pressure is 922 mb (27.23 inches).

### HAZARDS AFFECTING LAND

WIND: Catastrophic hurricane conditions continue on Grand Bahama Island. Do not venture out into the eye, as winds will suddenly increase after the eye passes.

Hurricane conditions are expected within the Hurricane Warning area in Florida by late tonight or Tuesday. Hurricane conditions are possible in the Hurricane Watch area on Wednesday.

Tropical storm conditions are expected within the Tropical Storm warning area today and Tuesday, and are possible in the Tropical Storm watch area by tonight.

STORM SURGE: A life-threatening storm surge will raise water levels

Thurs norning at south Corolina cocest

by as much as 18 to 23 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 during the day.

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 to the Savannah River...4 to 7 ft North of Deerfield Beach to Lantana...2 to 4 ft

Water levels could begin 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 late this week:

Northwestern Bahamas...12 to 24 inches, isolated 30 inches. Central Bahamas...Additional 1 to 3 inches, isolated storm totals of 6 inches.

Coastal Carolinas...5 to 10 inches, isolated 15 inches. Atlantic Coast from the Florida peninsula through Georgia...4 to 8 inches, isolated 10 inches.

This rainfall may cause life-threatening flash floods.

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

TORNADOES: Isolated tornadoes are possible this afternoon into tonight along the immediate coast of east-central Florida.

NEXT ADVISORY

Next intermediate advisory at 200 PM EDT. Next complete advisory at 500 PM EDT.

\$\$ Forecaster Brown

### 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



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 11691 SW 17th Street Miami, FL, 33165 nhcwebmaster@noaa.gov

Central Pacific Hurricane Center 2525 Correa Rd Suite 250 Honolulu, HI 96822 W-HFO.webmaster@noaa.gov Disclaimer Information Quality Help Glossary Privacy Policy Freedom of Information Act (FOIA) About Us Career Opportunities Home Mobile Site Text Version RSS Local Forecast Enter City,St or ZIP code Go





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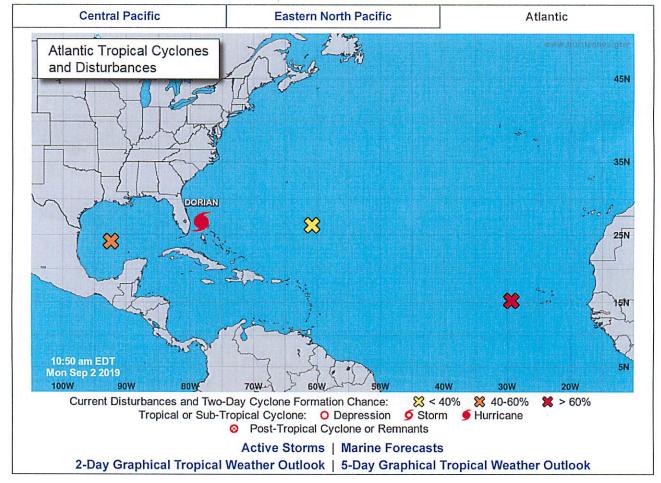
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Last update Mon, 2 Sep 2019 15:28:55 UTC

- · NHC issuing advisories for the Atlantic on Hurricane Dorian
- NHC issuing advisories for the Eastern Pacific on TS Juliette
- Key Messages regarding Dorian
- · Local information on Dorian: Miami, FL , Melbourne, FL , Jacksonville, FL , Tampa Bay Area, FL
- · Audio podcasts regarding Dorian now available
- · 4 hurricanes in 6 weeks? It happened to one state in 2004. Lessons learned then are valuable reminders today
- · Video: What You Should...and Should Not...Do with the NHC Forecast Cone (download available here)



Atlantic - Caribbean Sea - Gulf of Mexico Tropical Weather Outlook (en Español\*)

800 AM EDT Mon Sep 2 2019

Tropical Weather Discussion 747 AM EDT Mon Sep 2 2019

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...GRAND BAHAMA ISLAND CONTINUES TO EXPERIENCE CATASTROPHIC WINDS AND STORM SURGE AS DORIAN INCHES WESTWARD...

11:00 AM EDT Mon Sep 2 Location: 26.8°N 78.3°W Moving: W at 1 mph Min pressure: 922 mb Max sustained: 155 mph

Public Advisory #37 1100 AM EDT Aviso Publico\* #37 1100 AM AST

Forecast Advisory #37 1500 UTC Forecast Discussion #37 1100 AM EDT Pronóstico Discusión\* not available Wind Speed Probabilities #37 1500 UTC

NWS Local Products 1122 AM EDT US Watch/ Warning 1108 AM EDT

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1200 NIC WON 2EP 02 2019 GIRZSRIA JA IMAIM MATUANE CENTER MIAMI FL HURRICANE DORIAN WIND SPEED PROBABILITIES NUMBER 37

135 KTS...155 MPH...250 KM/H. 26.8 NORTH...LONGITUDE 78.3 WEST WITH MAXIMUM SUSTAINED WINDS NEAR AT 1500Z THE CENTER OF HURRICANE DORLAN WAS LOCATED NEAR LAITIUDE

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WIND SPEED PROBABILITY TABLE FOR SPECIFIC LOCATIONS

...50 KT (58 MPH... 93 KM/H)... ...34 KT (39 MPH... 63 KM/H)... CHANCES OF SUSTRINED (1-MINUTE AVERAGE) WIND SPEEDS OF ALL LEAST

FOR LOCATIONS AND TIME PERIODS DURING THE NEXT 5 DAYS ...64 KT (74 MPH...119 KM/H)...

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(CP) IS THE PROBABILITY OF THE EVENT OCCURRING BETWEEN

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Wind Speed Probabilities



Key Messages



**Arrival Time** of Winds



Storm Surge



Wind History



Storm Surge Watch/Warning



Warnings/Cone Interactive Map



U.S. Rainfall



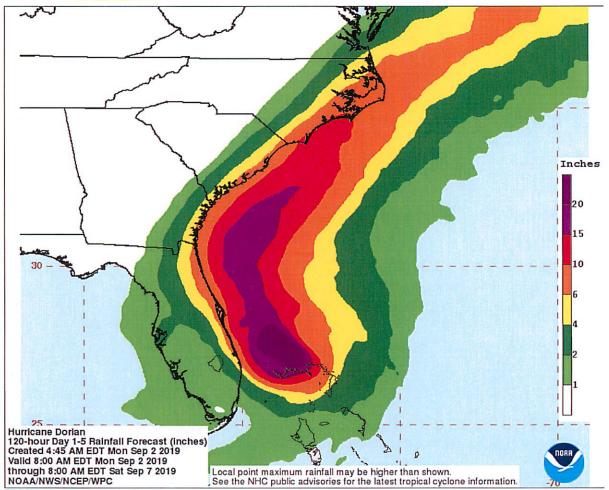
Warnings/Cone Static Images



Warnings and Surface Wind



U.S. Rainfall QPF (from WPC)



Click Here for a Printer Friendly Graphic

# About this product:

This graphic is created by the NWS/NCEP Weather Prediction Center (WPC) and shows rainfall potential for the United States when a tropical cyclone threatens land. The graphic is displayed as a Quantitative Precipitation Forecast (QPF), which shows rainfall totals for a specified time period, based on forecaster discretion. For more rainfall information, visit the Specialized WPC Precipitation Forecasts. For WPC QPFs in KML Format, Click Here.

Text Version

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### HURRICANE DORIAN

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U.S. Watch/Warning Local Products







Key Messages







Storm Surge Watch/Warning



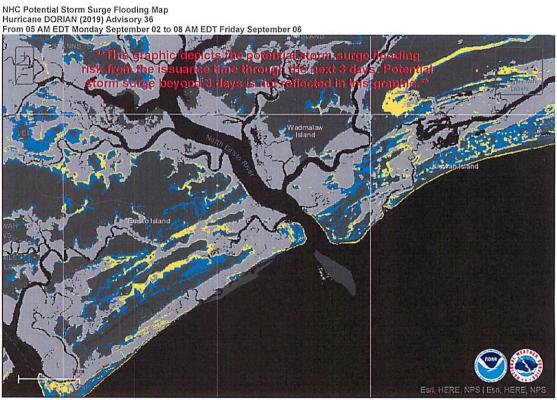




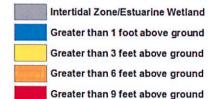


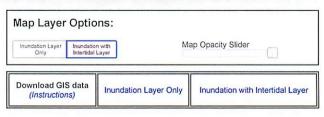


## Potential Storm Surge Flooding Map (Inundation)



# Potential Storm Surge Flooding\*





<sup>\*</sup>Displayed flooding values indicate the water height that has about a 1-in-10 (10%) chance of being exceeded.



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### **HURRICANE DORIAN**



Potential

### Interactive Map

Probabilities

Key Messages

Interactive Forecast Graphics and Coastal Watches/Warnings Hurricane Dorian Advisory #037 11:00 am EDT Mon Sep 02, 2019

Inundation

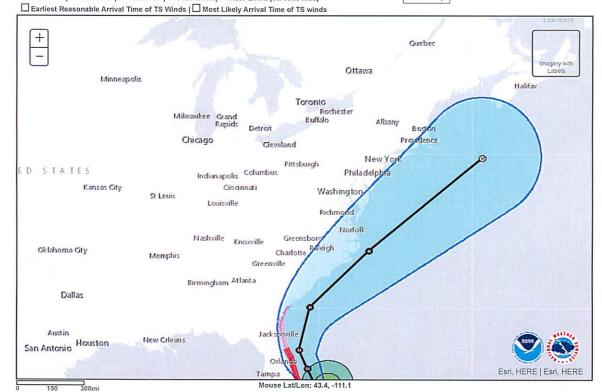
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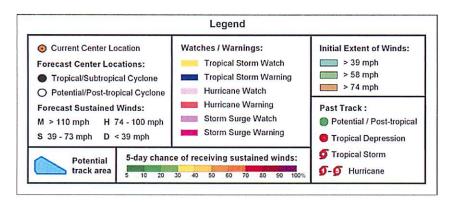
☐ Track | ☐ Cone | ☐ Wind Watches/Warnings | ☐ Storm Surge Watches/Warnings | ☐ Initial Wind Radii
☐ 34kt WSP | ☐ 50kt WSP | ☐ 64kt WSP | ☐ Past Track | ☐ Auto-Zoom (on cone load)

Watch/Warning

Clear Map

Potential





### About this product:

This graphic shows an approximate representation of coastal areas under a hurricane warning (red), hurricane watch (pink), tropical storm warning (blue) and tropical storm watch (yellow). The orange circle indicates the current position of the center of the tropical cyclone. The black line and dots show the National Hurricane Center (NHC) forecast track of the center at the times indicated. The dot indicating the forecast center location will be black if the cyclone is forecast to be tropical and will be white with a black outline if the cyclone is forecast to be extratropical. If only an L is displayed, then the system is forecast to be a remnant low. The letter inside the dot indicates the NHC's forecast intensity for that time:

- D: Tropical Depression wind speed less than 39 MPH
- S: Tropical Storm wind speed between 39 MPH and 73 MPH
- H: Hurricane wind speed between 74 MPH and 110 MPH
- M: Major Hurricane wind speed greater than 110 MPH

NHC tropical cyclone forecast tracks can be in error. This forecast uncertainty is conveyed by the track forecast "cone", the solid white and stippled white areas in the graphic. The solid white area depicts the track forecast uncertainty for days 1-3 of the forecast, while the stippled area depicts the uncertainty on days 4-5. Historical data indicate that the entire 5-day path of the center of the tropical cyclone will remain within the cone about 60-70% of the time. To form the cone, a set of imaginary circles are placed along the forecast track at the 12, 24, 36, 48, 72, 96, and 120 h positions, where the size of each circle is set so that it encloses 67% of the previous five years official forecast errors. The cone is then formed by smoothly connecting the area swept out by the set of circles

It is also important to realize that a tropical cyclone is not a point. Their effects can span many hundreds of miles from the center. The area experiencing hurricane force (one-minute average wind speeds of at least 74 mph) and tropical storm force (one-minute average wind speeds of 39-73 mph) winds can extend well beyond the white areas shown enclosing the most likely track area of the center. The distribution of hurricane and tropical storm force winds in this tropical cyclone can be seen in the Wind History graphic linked above

Considering the combined forecast uncertainties in track, intensity, and size, the chances that any particular location will experience winds of 34 kt (tropical storm force), 50 kt, or 64 kt (hurricane force) from this tropical cyclone are presented in tabular form for selected locations and forecast positions. This information is also presented in graphical form for the 34 kt, 50 kt, and 64 kt thresholds.

Note: A detailed definition of the NHC track forecast cone is also available.

### Quick Links and Additional Resources

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Tropical Cyclone Advisories
Tropical Weather Outlook Audio/Podcasts

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YouTube T 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 11691 SW 17th Street Miami, FL, 33165 nhcwebmaster@noaa.gov

Central Pacific Hurricane Center 2525 Correa Rd Suite 250 Honolulu, HI 96822 W-HFO.webmaster@noaa.gov

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