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Hurricane Dorian Public Advisory

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WTNT35 KNHC 011456
TCPAT5

BULLETIN
Hurricane Dorian Advisory Number 33
NWS National Hurricane Center Miami FL AL052019
1100 AM EDT Sun Sep 01 2019

...DORIAN BECOMES THE STRONGEST HURRICANE IN MODERN RECORDS FOR
THE NORTHWESTERN BAHAMAS.
...CATASTROPHIC CONDITIONS OCCURING IN THE ABACOS ISLANDS...

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

LOCATION...26.5N 76.8W
ABOUT 20 MI...30 KM ENE OF GREAT ABACO ISLAND
ABOUT 205 MI...330 KM E OF WEST PALM BEACH FLORIDA
MAXIMUM SUSTAINED WINDS...180 MPH...285 KM/H
PRESENT MOVEMENT...W OR 270 DEGREES AT 7 MPH...11 KM/H
MINIMUM CENTRAL PRESSURE...913 MB...26.96 INCHES

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY:

A Hurricane Watch has been issued for the east coast of Florida from
north of Deerfield Beach to the Volusia/Brevard County Line.

A Storm Surge Watch has also been issued from north of Deerfield
Beach to the Volusia/Brevard County Line.

A Tropical Storm Watch has been issued for Lake Okeechobee.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Storm Surge Watch is in effect for...
* North of Deerfield Beach to the Volusia/Brevard County Line

A Hurricane Warning is in effect for...
* Northwestern Bahamas excluding Andros Island

A Hurricane Watch is in effect for...
* Andros Island
* North of Deerfield Beach to the Volusia/Brevard County Line

A Tropical Storm Warning is in effect for...
* North of Deerfield Beach to Sebastian Inlet

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

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.
For a depiction of areas at risk, please see the National Weather
Service Storm Surge Watch/Warning Graphic, available at
hurricanes.gov.

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 east coast of Florida should continue to monitor the progress of Dorian, as additional watches or warnings 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 extremely distinct eye of Hurricane Dorian was located near latitude 26.5 North, longitude 76.8 West. Dorian is moving toward the west near 7 mph (11 km/h). A slower westward motion should continue for the next day or two, followed by a gradual turn toward the northwest. On this track, the core of extremely dangerous Hurricane Dorian will continue to move over Great Abaco and move near or over Grand Bahama Island later tonight and Monday. The hurricane should move closer to the Florida east coast late Monday through Tuesday night.

Maximum sustained winds have increased to near 180 mph (285 km/h) with higher gusts. Dorian is a extremely dangerous category 5 hurricane on the Saffir-Simpson Hurricane Wind Scale. Some fluctuations in intensity are likely, but Dorian is expected to remain a powerful hurricane during the next few days.

Dorian has grown larger in size. 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). Ham radio reports indicate that Hope Town in the Abacos just reported wind gust to 100 mph.

The minimum central pressure measured by both NOAA and Air Force reconnaissance plane was 913 mb (26.96 inches).

HAZARDS AFFECTING LAND

WIND: Catastrophic hurricane conditions are occurring in the Abacos Islands and will spread across Grand Bahama Island later today and tonight.

Hurricane conditions are possible within the hurricane watch area in Florida by late Monday or early Tuesday.

Tropical storm conditions are expected within the tropical storm warning area on Monday and Tuesday.

Tropical storm conditions are possible within the tropical storm watch area by Monday night.

STORM SURGE: A life-threatening storm surge will raise water levels by as much as 18 to 23 feet above normal tide levels in areas of onshore winds on the Abaco Islands and Grand Bahama Island. Near the coast, the surge will be accompanied by large and destructive waves.

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...

Volusia/Brevard County Line to Jupiter Inlet FL...4 to 7 ft
North of Deerfield Beach to Jupiter Inlet FL...2 to 4 ft

The surge will be accompanied by large and destructive waves. Surge-related flooding depends on how close the center of Dorian comes to the Florida east 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.
Coastal Carolinas...5 to 10 inches, isolated 15 inches.
Central Bahamas and the Atlantic Coast from the Florida peninsula through Georgia...2 to 4 inches, isolated 6 inches.

This rainfall may cause life-threatening flash floods.

SURF: Large swells are already affecting east-facing shores of the Bahamas, 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.

NEXT ADVISORY

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

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Forecaster Avila

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National Oceanic and Atmospheric
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Central Pacific Hurricane Center
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Hurricane Dorian Discussion Number 33
NWS National Hurricane Center Miami FL AL052019
1100 AM EDT Sun Sep 01 2019

Air Force and NOAA reconnaissance planes penetrated the distinct eye of Dorian, and found that the hurricane has become extremely intense with a stadium effect in the eye. The NOAA plane reported a peak flight-level wind of 159 kt, while the SFMR from both planes have measured winds between 155 and 170 kt. A dropsonde from the NOAA plane measured a wind gust of 176 kt at the surface. A blend of these measurements yield to an initial intensity of 155 kt, making Dorian the strongest hurricane on record in the northwestern Bahamas.

For the next few days, Dorian should experience some fluctuations in intensity, and in addition to eyewall replacement cyclone, the interaction with the northwestern Bahamas should weaken the hurricane slightly. After 3 days, as Dorian moves northward along or offshore of southeast United States coast, the shear is forecast to increase, resulting in a more distinct gradual weakening.

Reconnaissance plane and satellite fixes indicate that Dorian, as anticipated, has slowed down and is moving toward the west or 270 degrees at 6 kt. The steering currents are collapsing and Dorian is expected to slow down even more, prolonging its catastrophic effects in the northwestern Bahamas. The NHC forecast calls for a slow west to west-northwest motion during the next 48 hours, with a turn to the north and an increase in forward speed as the mid-level trough along the eastern United States deepens and becomes the dominant steering feature. The current forecast is only a few miles west of the previous one and is basically on top of the multi-model consensus. Both the deterministic and consensus tracks have shown the usual variability to the right or to the left from run to run, but the overall trend is for the hurricane to turn northward offshore but very close to the Florida peninsula.

Given the uncertainty in the track forecast and the anticipated increase in size of the hurricane, a Hurricane Watch and Storm Surge Watch have been issued for a portion of the east Florida coast. It is emphasized that although the official track forecast does not show landfall, users should not focus on the exact track. A small deviation to the left of the track could bring the intense core of the hurricane its dangerous winds closer to or onto the coast.

Key Messages:

1. A prolonged period of catastrophic winds and storm surge will affect the Abaco Islands today. Everyone there should take immediate shelter and not venture into the eye. These catastrophic conditions are likely on Grand Bahama Island later today or tonight, and efforts to protect life and property there should be rushed to completion.
2. Storm surge and hurricane watches and tropical storm warnings are in effect for portions of the Florida east coast. Life-threatening storm surge and dangerous hurricane-force winds are possible along portions of the Florida east coast through mid-week, as only a slight deviation to the left of the official forecast would bring the core of Dorian near or over the coast. Residents should listen to advice given by local emergency officials.

3. There is an increasing likelihood of strong winds and dangerous storm surge along the coasts of Georgia, South Carolina, and North Carolina later this week. Residents in these areas should continue to monitor the progress of Dorian.

4. Heavy rains, capable of producing life-threatening flash floods, are possible over northern portions of the Bahamas and coastal sections of the southeast and lower mid-Atlantic regions of the United States through late this week.

FORECAST POSITIONS AND MAX WINDS

INIT	01/1500Z	26.5N	76.8W	155 KT	180 MPH
12H	02/0000Z	26.6N	77.7W	150 KT	175 MPH
24H	02/1200Z	26.8N	78.5W	145 KT	165 MPH
36H	03/0000Z	27.0N	79.0W	135 KT	155 MPH
48H	03/1200Z	27.4N	79.4W	120 KT	140 MPH
72H	04/1200Z	29.7N	80.2W	100 KT	115 MPH
96H	05/1200Z	32.5N	79.0W	85 KT	100 MPH
120H	06/1200Z	35.5N	74.5W	80 KT	90 MPH

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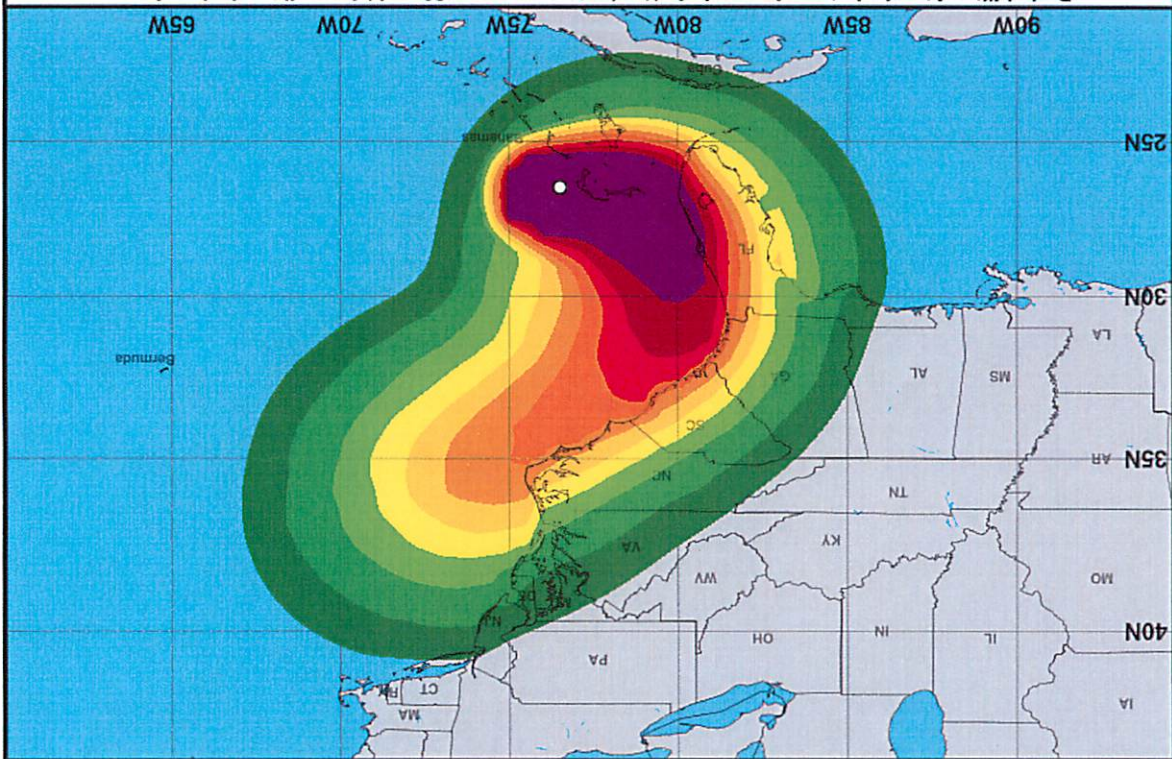
Wind Speed Probabilities	Arrival Time of Winds	History	Warnings/Cone Interactive Map	U.S. Rainfall Potential	Storm Surge
Key Messages	Storm Surge Inundation	Storm Surge Watch/Warning	U.S. Rainfall Potential	Warnings/Cone Static Images	Warnings and Surface Wind

Hurricane Wind Speed Probability	50-knot Wind Speed Probability	Tropical Storm Wind Speed Probability
0 12 24 36 48 60 72 84 96 108 120 hours Loop	0 12 24 36 48 60 72 84 96 108 120 hours Loop	0 12 24 36 48 60 72 84 96 108 120 hours Loop

Tropical-Storm-Force Wind Speed Probabilities



For the 120 hours (5.00 days) from 8 AM EDT SUN SEP 01 to 8 AM EDT FRI SEP 06

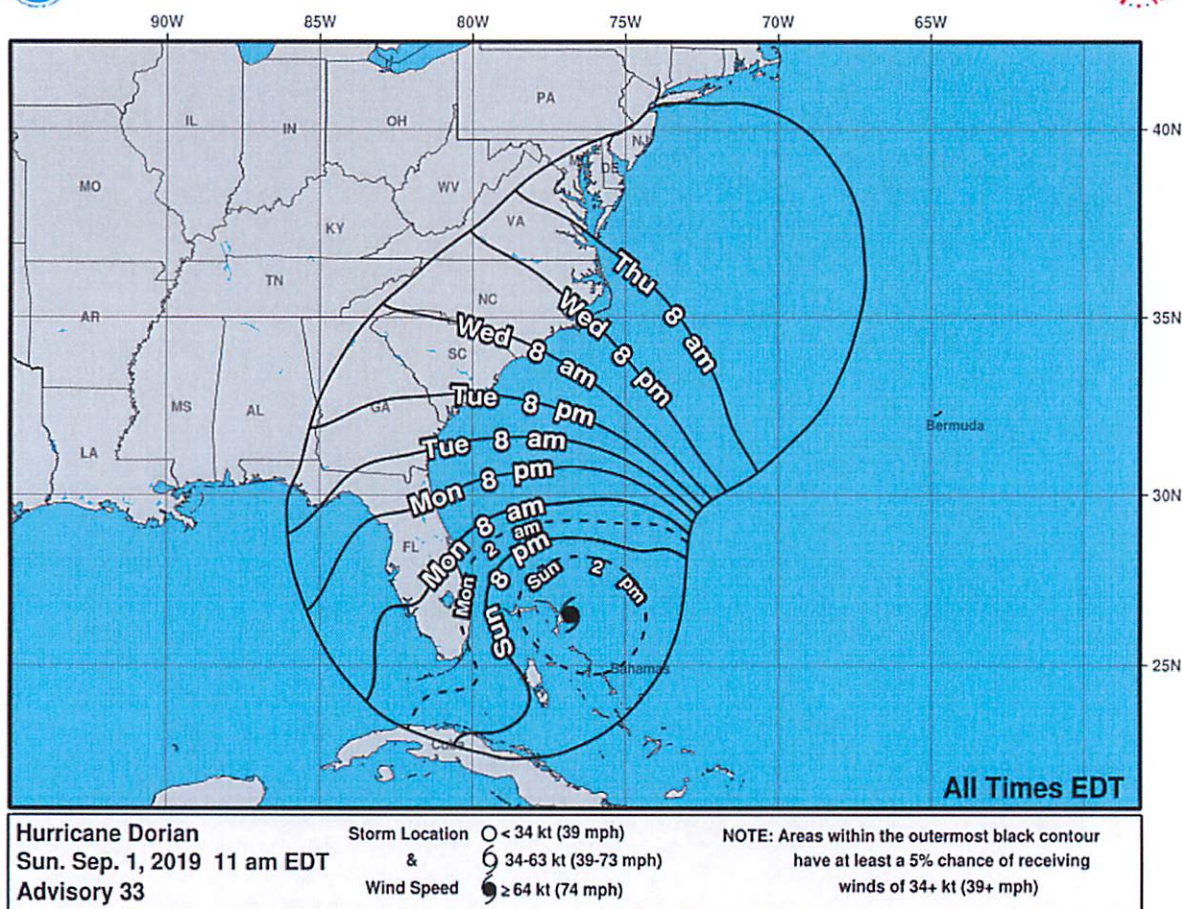


[Click Here for a Printer Friendly Graphic](#)

Download 120-h GIS data: 5 km .shp 0.5 degree .shp



Earliest Reasonable Arrival Time of Tropical-Storm-Force Winds



* If the storm is forecast to dissipate within 3 days, the "Full Forecast" and "3 day" graphic will be identical

About this product:

The timing graphics are created using the same Monte Carlo wind speed probability model that is currently used to determine the risk of tropical-storm- and hurricane-force winds at individual locations – a model in which 1000 plausible scenarios are constructed using the official NHC tropical cyclone forecast and its historical errors. Additional information on this product and the underlying technique is [available on the NHC website](#).

There will be two versions of the Arrival of Tropical-Storm-Force Winds Graphic available on the NHC website for all tropical cyclones, post-tropical cyclones, and potential tropical cyclones for which NHC is issuing advisories:

1. Earliest Reasonable Arrival Time: the primary graphic, which identifies the time window that users at individual locations can safely assume will be free from tropical-storm-force winds. Specifically, this is the time before which there is no more than a 1-in-10 (10 percent) chance of seeing the onset of sustained tropical-storm-force winds – the period during which preparations should ideally be completed for those with a low tolerance for risk.
2. Most Likely Arrival Time: the graphic that identifies the time before or after which the onset of tropical-storm-force winds is equally likely. This graphic would be more appropriate for users who are willing to risk not having completed all their preparations before the storm arrives.

Timing information will only be available for locations that have at least a 5 percent chance of experiencing sustained tropical-storm-force winds during the next 5 days.

Each of these versions will also be available overlaid on top of the cumulative 5-day probability of tropical-storm-force winds, providing a single combined depiction of the likelihood of tropical-storm-force winds at individual locations, along with their possible or likely arrival times.

The graphics will be updated with each new NHC full advisory package. Arrival times will be depicted with higher temporal resolution (i.e., in 6-hour intervals) during the first day of the 5-day forecast, increasing to lower temporal resolution (i.e., in 12-hour intervals) after the first day of the 5-day forecast period. Arrival times will be referenced to 8 AM and 8 PM local time, using a constant time zone that corresponds to where the cyclone is located at the time of the advisory. For example, if a cyclone is located in the Eastern Time Zone at the time of an advisory but is forecast to move into the Central Time Zone during the 5-day forecast period, all times on the graphic will be referenced to the Eastern Time Zone.

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: This information is also available in PDF format.



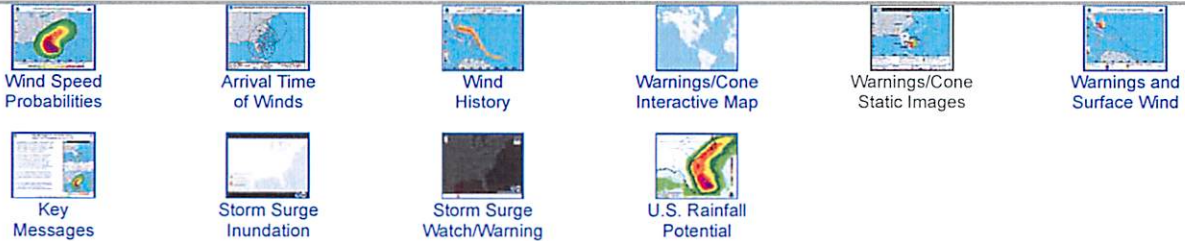
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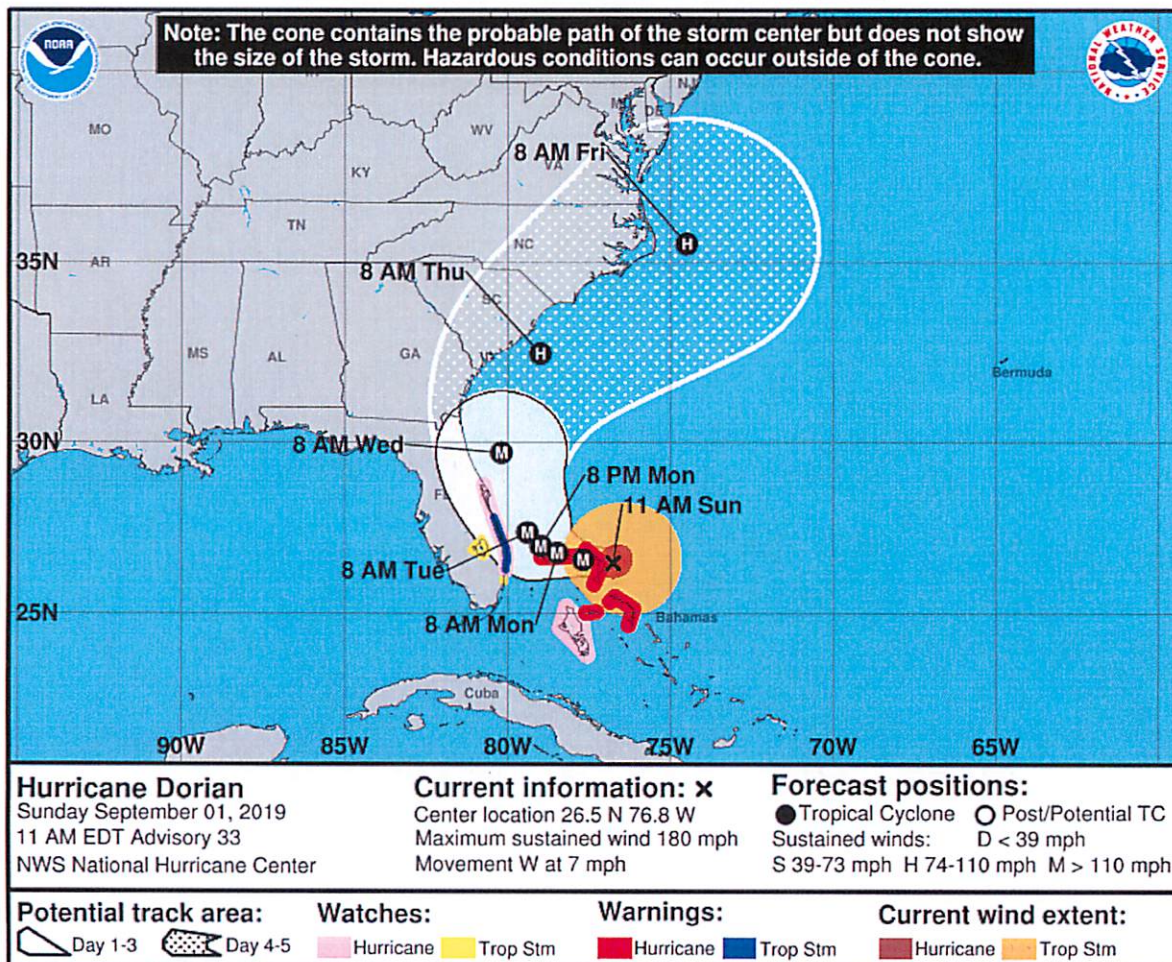
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Coastal Watches/Warnings and Forecast Cone for Storm Center

Forecast Length*	Forecast Track Line	Initial Wind Field
Full Forecast	On	On
3 days	Off	Off





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Wind Speed Probabilities



Arrival Time of Winds



Wind History



Warnings/Cone Interactive Map



Warnings/Cone Static Images



Warnings and Surface Wind



Key Messages



Storm Surge Inundation



Storm Surge Watch/Warning



U.S. Rainfall Potential



Key Messages for Hurricane Dorian Advisory 33: 11:00 AM EDT Sun Sep 01, 2019



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