Current Watches and Warnings

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

A *Hurricane Watch* is in effect for the Bahamas (Andros Island)

Current Details from the National Hurricane Center (NHC)

**COORDINATES:** 26.0° north, 73.4° west

**LOCATION:** 415 miles (670 kilometers) east of West Palm Beach, Florida

**MOVEMENT:** west at 8 mph (13 kph)

**WINDS:** 150 mph (240 kph) with gusts to 185 mph (295 kph)

**RADIUS OF TROPICAL STORM-FORCE WINDS:** 115 miles (185 kilometers)

**RADIUS OF HURRICANE-FORCE WINDS:** 30 miles (45 kilometers)

**MINIMUM CENTRAL PRESSURE:** 945 millibars

**SAFFIR-SIMPSON SCALE RANKING***: Category 4

**24-HOUR LANDFALL POTENTIAL:** MEDIUM

Latest Satellite Picture

Source: NASA/NOAA
Discussion

Hurricane Dorian, located approximately 415 miles (670 kilometers) east of West Palm Beach, Florida, is currently tracking west at 8 mph (13 kph). Dorian's satellite presentation continues to show the signs of a very powerful hurricane, including a distinct eye feature. Both NOAA and Air Force Hurricane Hunter planes have been penetrating the eye this morning, and based on a blend of the recorded flight-level and surface-adjusted winds, the NHC has upwardly adjusted the initial intensity to 150 mph (240 kph). This makes Dorian a very strong Category 4 hurricane on the Saffir-Simpson Scale. The storm is forecast to move over a deep layer of very warm waters, which is a major source of fuel for hurricanes to develop and/or maintain intensity. The combination of the warm ocean and the prevailing low wind shear environment along Dorian's path should favor some additional strengthening. However, there are likely to be some fluctuations in intensity as it undergoes eyewall replacement cycles that are difficult to predict. Beyond Day 3, as the hurricane begins to gain latitude it is expected that gradual weakening will occur.

Dorian is now moving towards the west at a slightly slower speed. It continues to be steered by weak flow to the south of the ridge of high pressure located in the western Atlantic Ocean. Most of the forecast models shift the high eastward and deepen a trough over the eastern United States after two days' time. This steering flow would typically favor a gradual turn of the hurricane to the northwest and north, though there is large uncertainty in the exact location and timing of this northward turn. Although the latest guidance has shifted a little bit eastward again this morning away from the U.S. coastline, there are still ECMWF (European) and GFS (United States) ensemble members that do not forecast the northward turn so soon. On this basis, NHC has only slightly shifted the track forecast to the right of the previous one, and the new official forecast lies along the western edge of the guidance envelope. This will allow for further adjustments in the track during future forecast cycles.

All interests from Florida to North Carolina are advised to keep close watch on Dorian’s track.

Key Messages from the National Hurricane Center

1. A prolonged period of life-threatening storm surge and devastating hurricane-force winds are expected in portions of the northwestern Bahamas, particularly on the Abaco Islands and Grand Bahama Island. A Hurricane Warning is in effect for these areas, and residents should listen to advice given by local emergency officials and have their hurricane preparations completed today.

2. Life-threatening storm surge and dangerous hurricane-force winds are still possible along portions of the Florida east coast by the early to middle part of next week, but since Dorian is forecast to slow down and turn northward near or just offshore of the coast, it is too soon to determine when or where the highest surge and winds could occur. Residents should have their hurricane plan in place, know if they are in a hurricane evacuation zone, and listen to advice given by local emergency officials.

3. The risk of strong winds and dangerous storm surge is increasing along the coasts of Georgia, South Carolina, and North Carolina during the middle of next week. Residents in these areas should continue to monitor the progress of Dorian.

4. Heavy rains, capable of life-threatening flash floods, are expected over portions of the Bahamas and coastal sections of the southeastern United States this weekend through much of next week.
Additional Information

WIND: Hurricane conditions are expected in the Hurricane Warning area across the northwestern Bahamas by Sunday, with tropical storm winds beginning tonight.

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 in the northwestern Bahamas. Near the coast, the surge will be accompanied by large and destructive waves.

RAINFALL: Dorian is expected to produce the following rainfall accumulations this weekend into the middle of next week:

Northwestern Bahamas: 10 to 15 inches, isolated 25 inches
Coastal sections of the U.S. Southeast: 4 to 8 inches, isolated 12 inches
Central Bahamas: 2 to 4 inches, isolated 6 inches

This rainfall may cause life-threatening flash floods.

SURF: Swells will begin affect the east-facing shores of the Bahamas, the Florida east coast, and the southeastern United States coast during the next few days. These swells are likely to cause life-threatening surf and rip current conditions.
National Hurricane Center (NHC) Forecast
Most Likely Arrival Time of Tropical Storm-Force Winds

Hurricane Dorian
Sat. Aug. 31, 2019 11 am EDT
Advisory 29

Storm Location & Wind Speed
- < 34 kt (39 mph)
- 34-63 kt (39-73 mph)
- ≥ 64 kt (74 mph)

5-day chance of receiving sustained 34+ kt (38+ mph) winds

All Times EDT
National Hurricane Center: Wind Speed Probabilities

Tropical Storm-Force Wind Probabilities (≥40 mph (65 kph))
Wind Probabilities (≥60 mph (95 kph))
Hurricane-Force Wind Probabilities (≥75 mph (120 kph))
Wind Swath History
Weather Prediction Center: U.S. Rainfall Forecast

Hurricane Dorian
188-hour Day 1-7 Rainfall Forecast (inches)
Created 4:31 AM EDT Sat Aug 31 2019
Valid 8:00 AM EDT Sat Aug 31 2019
through 8:00 AM EDT Sat Sep 7 2019
NOAA/NWS/NCEP/WPC

Local point maximum rainfall may be higher than shown.
See the NHC public advisories for the latest tropical cyclone information.
Current ‘Spaghetti’ Model Output Data

Source: NHC

Additional Information and Update Schedule

Wind intensity forecasts and forecast track information can be found via the National Hurricane Center at www.nhc.noaa.gov

NEXT CAT ALERT: Sunday morning after 10:00 AM Central Time (15:00 UTC).
<table>
<thead>
<tr>
<th>WIND SPEED</th>
<th>NE Pacific, Atlantic</th>
<th>NW Pacific</th>
<th>SW Pacific</th>
<th>Australi a</th>
<th>SW Indian</th>
<th>North Indian</th>
</tr>
</thead>
<tbody>
<tr>
<td>KTS¹</td>
<td>MPH¹</td>
<td>KPH¹</td>
<td>NE Pacific</td>
<td>NW Pacific</td>
<td>SW Pacific</td>
<td>National Hurricane Center (NHC)</td>
</tr>
<tr>
<td>30</td>
<td>35</td>
<td>55</td>
<td>Tropical Depression</td>
<td>Tropical Depression</td>
<td>Tropical Depression</td>
<td>Tropical Depression</td>
</tr>
<tr>
<td>35</td>
<td>40</td>
<td>65</td>
<td>Tropical Storm</td>
<td>Tropical Storm</td>
<td>Tropical Storm</td>
<td>Cat. 1 Tropical Cyclone</td>
</tr>
<tr>
<td>40</td>
<td>45</td>
<td>75</td>
<td>Tropical Storm</td>
<td>Tropical Storm</td>
<td>Tropical Storm</td>
<td>Severe Tropical Storm</td>
</tr>
<tr>
<td>45</td>
<td>50</td>
<td>85</td>
<td>Tropical Storm</td>
<td>Tropical Storm</td>
<td>Tropical Storm</td>
<td>Severe Tropical Storm</td>
</tr>
<tr>
<td>50</td>
<td>60</td>
<td>95</td>
<td>Tropical Storm</td>
<td>Tropical Storm</td>
<td>Tropical Storm</td>
<td>Severe Tropical Storm</td>
</tr>
<tr>
<td>55</td>
<td>65</td>
<td>100</td>
<td>Tropical Storm</td>
<td>Tropical Storm</td>
<td>Tropical Storm</td>
<td>Severe Tropical Storm</td>
</tr>
<tr>
<td>60</td>
<td>70</td>
<td>110</td>
<td>Tropical Storm</td>
<td>Tropical Storm</td>
<td>Tropical Storm</td>
<td>Severe Tropical Storm</td>
</tr>
<tr>
<td>65</td>
<td>75</td>
<td>120</td>
<td>Cat. 1 Hurricane</td>
<td>Cat. 1 Hurricane</td>
<td>Cat. 3 Severe Tropical Cyclone</td>
<td>Cat. 3 Severe Tropical Cyclone</td>
</tr>
<tr>
<td>70</td>
<td>80</td>
<td>130</td>
<td>Cat. 2 Hurricane</td>
<td>Cat. 2 Hurricane</td>
<td>Typhoon</td>
<td>Typhoon</td>
</tr>
<tr>
<td>75</td>
<td>85</td>
<td>140</td>
<td>Cat. 2 Hurricane</td>
<td>Cat. 2 Hurricane</td>
<td>Typhoon</td>
<td>Typhoon</td>
</tr>
<tr>
<td>80</td>
<td>90</td>
<td>150</td>
<td>Cat. 2 Hurricane</td>
<td>Cat. 2 Hurricane</td>
<td>Typhoon</td>
<td>Typhoon</td>
</tr>
<tr>
<td>85</td>
<td>100</td>
<td>160</td>
<td>Cat. 2 Hurricane</td>
<td>Cat. 2 Hurricane</td>
<td>Typhoon</td>
<td>Typhoon</td>
</tr>
<tr>
<td>90</td>
<td>105</td>
<td>170</td>
<td>Cat. 3 Hurricane</td>
<td>Cat. 3 Hurricane</td>
<td>Typhoon</td>
<td>Typhoon</td>
</tr>
<tr>
<td>95</td>
<td>110</td>
<td>175</td>
<td>Cat. 3 Hurricane</td>
<td>Cat. 3 Hurricane</td>
<td>Typhoon</td>
<td>Typhoon</td>
</tr>
<tr>
<td>100</td>
<td>115</td>
<td>185</td>
<td>Cat. 3 Hurricane</td>
<td>Cat. 3 Hurricane</td>
<td>Typhoon</td>
<td>Typhoon</td>
</tr>
<tr>
<td>105</td>
<td>120</td>
<td>195</td>
<td>Cat. 3 Hurricane</td>
<td>Cat. 3 Hurricane</td>
<td>Typhoon</td>
<td>Typhoon</td>
</tr>
<tr>
<td>110</td>
<td>125</td>
<td>205</td>
<td>Cat. 3 Hurricane</td>
<td>Cat. 3 Hurricane</td>
<td>Typhoon</td>
<td>Typhoon</td>
</tr>
<tr>
<td>115</td>
<td>130</td>
<td>210</td>
<td>Cat. 3 Hurricane</td>
<td>Cat. 3 Hurricane</td>
<td>Typhoon</td>
<td>Typhoon</td>
</tr>
<tr>
<td>120</td>
<td>140</td>
<td>220</td>
<td>Cat. 3 Hurricane</td>
<td>Cat. 3 Hurricane</td>
<td>Typhoon</td>
<td>Typhoon</td>
</tr>
<tr>
<td>125</td>
<td>145</td>
<td>230</td>
<td>Cat. 4 Hurricane</td>
<td>Cat. 4 Hurricane</td>
<td>Typhoon</td>
<td>Typhoon</td>
</tr>
<tr>
<td>130</td>
<td>150</td>
<td>240</td>
<td>Cat. 4 Hurricane</td>
<td>Cat. 4 Hurricane</td>
<td>Typhoon</td>
<td>Typhoon</td>
</tr>
<tr>
<td>135</td>
<td>155</td>
<td>250</td>
<td>Cat. 4 Hurricane</td>
<td>Cat. 4 Hurricane</td>
<td>Typhoon</td>
<td>Typhoon</td>
</tr>
<tr>
<td>140</td>
<td>160</td>
<td>260</td>
<td>Cat. 5 Hurricane</td>
<td>Cat. 5 Hurricane</td>
<td>Super Typhoon</td>
<td>Super Typhoon</td>
</tr>
<tr>
<td>&gt;140</td>
<td>&gt;160</td>
<td>&gt;260</td>
<td>Cat. 5 Hurricane</td>
<td>Cat. 5 Hurricane</td>
<td>Super Typhoon</td>
<td>Super Typhoon</td>
</tr>
</tbody>
</table>

* Tropical Cyclone Intensity Classifications for Global Basins

Cat Alert: Hurricane Dorian
About Aon

Aon plc (NYSE:AON) is a leading global professional services firm providing a broad range of risk, retirement and health solutions. Our 50,000 colleagues in 120 countries empower results for clients by using proprietary data and analytics to deliver insights that reduce volatility and improve performance.

© Aon plc 2019. All rights reserved. The information contained herein and the statements expressed are of a general nature and are not intended to address the circumstances of any particular individual or entity. Although we endeavor to provide accurate and timely information and use sources we consider reliable, there can be no guarantee that such information is accurate as of the date it is received or that it will continue to be accurate in the future. No one should act on such information without appropriate professional advice after a thorough examination of the particular situation.

Copyright © by Impact Forecasting®

No claim to original government works. The text and graphics of this publication are provided for informational purposes only. While Impact Forecasting® has tried to provide accurate and timely information, inadvertent technical inaccuracies and typographical errors may exist, and Impact Forecasting® does not warrant that the information is accurate, complete or current. The data presented at this site is intended to convey only general information on current natural perils and must not be used to make life-or-death decisions or decisions relating to the protection of property, as the data may not be accurate. Please listen to official information sources for current storm information. This data has no official status and should not be used for emergency response decision-making under any circumstances.

Cat Alerts use publicly available data from the internet and other sources. Impact Forecasting® summarizes this publicly available information for the convenience of those individuals who have contacted Impact Forecasting® and expressed an interest in natural catastrophes of various types. To find out more about Impact Forecasting or to sign up for the Cat Reports, visit Impact Forecasting’s webpage at impactforecasting.com.

Copyright © by Aon plc. All rights reserved. No part of this document may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise. Impact Forecasting® is a wholly owned subsidiary of Aon plc.