

Tropical Storm Dorian Advisory 13

Valid: 10:00 AM EDT Tuesday August 27, 2019



Current Location: 14.3N, 61.5W

Geographic Reference: 30 Miles NW of St. Lucia

Movement: West-northwest at 14 mph

Max Winds: 45 mph gusting to 60 mph

Current Hurricane Severity Index: 3 out of a possible 50 points (1 size, 2 intensity)

Max Predicted Hurricane Severity Index: 3 out of a possible 50 points (1 size, 2 intensity)

Current Radius of Tropical Storm-Force Winds: 45 miles

Max Predicted Radius of Tropical Storm-Force Winds: 45 miles

Organizational Trend: Steady

Forecast Confidence: Average

Key Points

1. There are no major changes in this advisory.
2. Dorian may clip the southwest tip of Puerto Rico tomorrow evening.
3. There is considerable uncertainty as to Dorian's intensity across the Bahamas and near landfall in Florida.

Our Forecast

As Dorian passed near St. Lucia and Martinique this morning, neither island reported any sustained tropical storm-force winds. However, a reconnaissance plane currently inside Dorian has found some pockets of 40 mph to 45 mph winds northwest through northeast of the poorly-defined center.

We have not made any major changes to the forecast in this advisory. Dorian will continue to battle with dry air aloft as it tracks across the eastern Caribbean over the next 36 hrs. This will limit its ability to strengthen prior to passing near the southwest tip of Puerto Rico tomorrow evening. Dorian may briefly weaken below tropical storm strength after moving northwest of Puerto Rico, but conditions across the Bahamas appear favorable for some strengthening prior to the center reaching Florida early on Sunday morning. We are predicting that Dorian's max sustained winds at landfall in Florida will be near 50 mph. However, the intensity forecast is quite uncertain.

Models have begun to diverge as far as Dorian's track once it reaches Florida. Although we are predicting that Dorian will turn northward and remain inland over Florida as it steadily weakens to a remnant low, there is a possibility that Dorian will emerge over the eastern Gulf of Mexico late next Sunday. If future model runs support this scenario, then we may be shifting Dorian's track westward and into the eastern Gulf of Mexico.

Expected Impacts Onshore

St. Lucia and St. Vincent: Scattered power outages and minor coastal flooding may have occurred this morning. Areas of flooding from heavy rainfall are possible.

Puerto Rico and Virgin Islands: Localized flooding is likely mainly for Puerto Rico along with scattered to widespread power outages.

Dominican Republic: Scattered power outages and minor coastal flooding will occur on Thursday for the extreme eastern part of the Dominican Republic. Areas of flash flooding and mudslides from heavy rainfall are expected Thursday.

Bahamas: Isolated power outages could occur this weekend for the Northwest Bahamas. Localized flooding is also likely.

Expected Impacts Offshore

Northeast Caribbean: Any tropical storm force winds should be confined very near the center. Seas in the vicinity of Dorian should be less than 15 feet.

An intermediate advisory will be issued by 1 PM AST / EDT/ Our next advisory will be issued by 4 PM AST / EDT

Meteorologist: Chris Hebert

StormGeo

Fcst Hour	Valid	Lat.	Lon.	Max Sustained Winds	Max Gusts	Category	Size	Intensity	Total
0	10AM EDT Tue Aug 27	14.30N	61.50W	45 mph	60 mph	Tropical Storm	1	2	3
12	10PM EDT Tue Aug 27	15.50N	63.70W	45 mph	60 mph	Tropical Storm	1	2	3
24	10AM EDT Wed Aug 28	16.80N	65.70W	45 mph	60 mph	Tropical Storm	1	2	3
36	10PM EDT Wed Aug 28	18.10N	67.40W	40 mph	50 mph	Tropical Storm	1	1	2
48	10AM EDT Thu Aug 29	19.70N	69.20W	35 mph	45 mph	Tropical Depression	0	1	1
60	10PM EDT Thu Aug 29	21.20N	70.60W	35 mph	45 mph	Tropical Depression	0	1	1
72	10AM EDT Fri Aug 30	22.90N	72.40W	40 mph	50 mph	Tropical Storm	1	1	2
84	10PM EDT Fri Aug 30	24.30N	74.40W	45 mph	60 mph	Tropical Storm	1	2	3
96	10AM EDT Sat Aug 31	25.50N	76.50W	50 mph	65 mph	Tropical Storm	1	2	3
108	10PM EDT Sat Aug 31	26.70N	79.00W	50 mph	65 mph	Tropical Storm	1	2	3
114	4AM EDT Sun Sep 01	27.20N	80.10W	50 mph	65 mph	Tropical Storm	1	2	3
120	10AM EDT Sun Sep 01	27.80N	81.20W	40 mph	50 mph	Tropical Storm	1	1	2
132	10PM EDT Sun Sep 01	29.40N	82.40W	35 mph	45 mph	Tropical Depression	0	1	1
144	10AM EDT Mon Sep 02	30.10N	83.50W	35 mph	45 mph	Tropical Depression	0	1	1
156	10PM EDT Mon Sep 02	30.70N	83.70W	30 mph	40 mph	Remnant Low	0	0	0
168	10AM EDT Tue Sep 03	31.00N	84.60W	30 mph	35 mph	Remnant Low	0	0	0

The yellow cone represents track error from the previous five years. Over the past five tropical cyclone seasons, the center of the storm tracked within the yellow cone 75% of the time. The cone does not represent the forecast uncertainty in the current advisory for this storm. In addition, strong winds, very high tides, large waves, and heavy rainfall can often extend well outside the yellow cone.