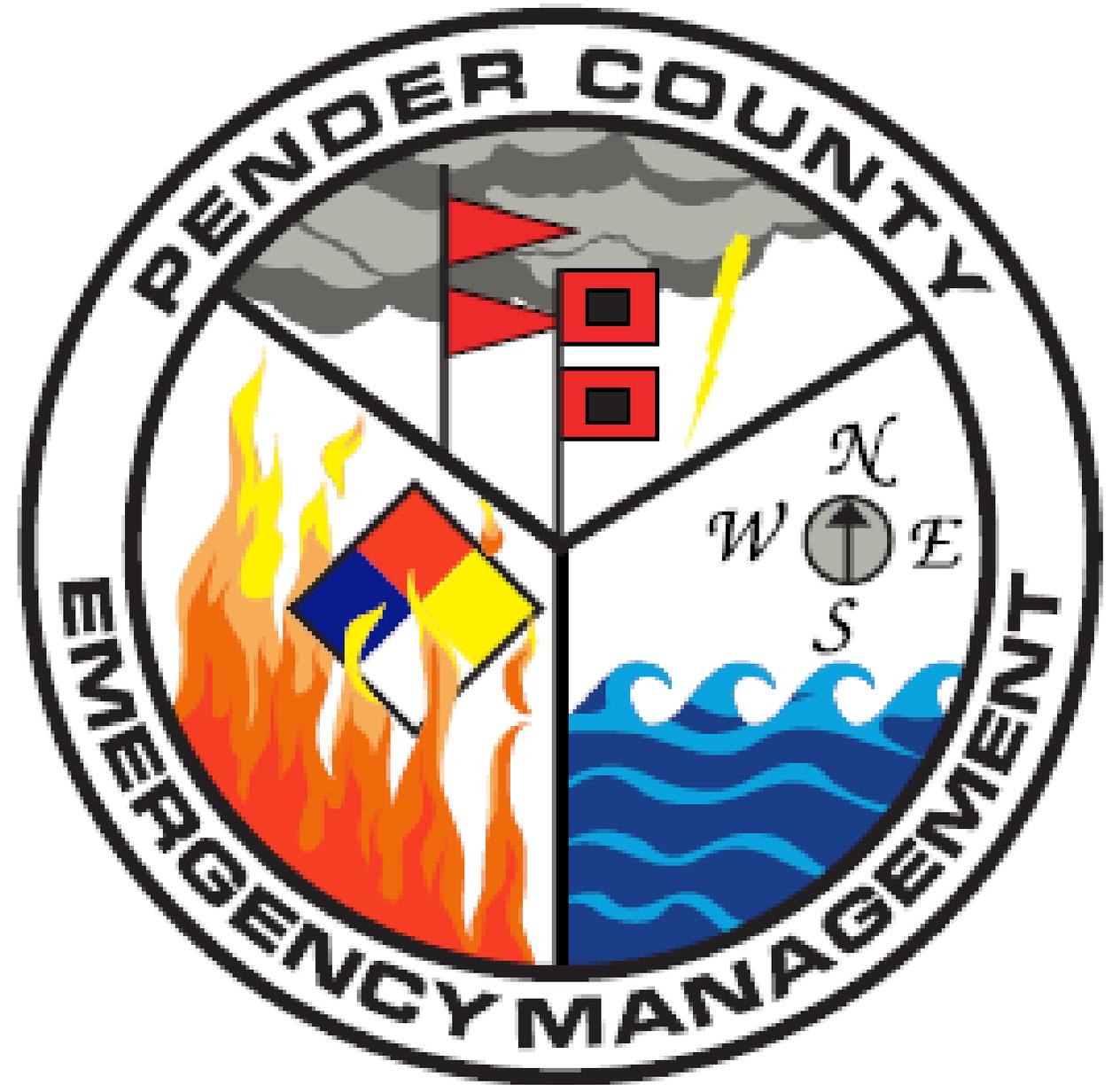


Pender County 2019 Tropical Update

August 27, 2019

Hurricane Dorian



The New Hurrevac HVX

HVX - 2.1.0 | hvx.hurrevac.com/hvx/home.html

Operational | Training

Hurricane Dorian - Advisory 21 +0h 11am, Thur, Aug 29, 2019 EDT

Map Layers: Storms, Conditions, Resources

Filter Storms

Name	Basin
Active Storms	
<input checked="" type="checkbox"/> DORIAN	AL
<input type="checkbox"/> ERIN	AL
<input type="checkbox"/> PODUL	WP
Current Year Storms	
Archived Storms	
Exercise Storms	
Simulated Storms	

Impact Exploration: Tropical Weather Outlook, Surge

Evacuation Decision Support: Clearance Times

Map Data:

- Tue Sep3 8AM 75mph Cat 1 (Tampa)
- Mon Sep2 8AM 130mph Cat 4
- Sun Sep1 8AM 130mph Cat 4
- Sat Aug31 8AM 125mph Cat 3
- Fri Aug30 8AM 115mph Cat 3
- Thu Aug29 11AM 85mph Cat 1

Map Coordinates: 84° W to 60° W, 5° N to 30° N

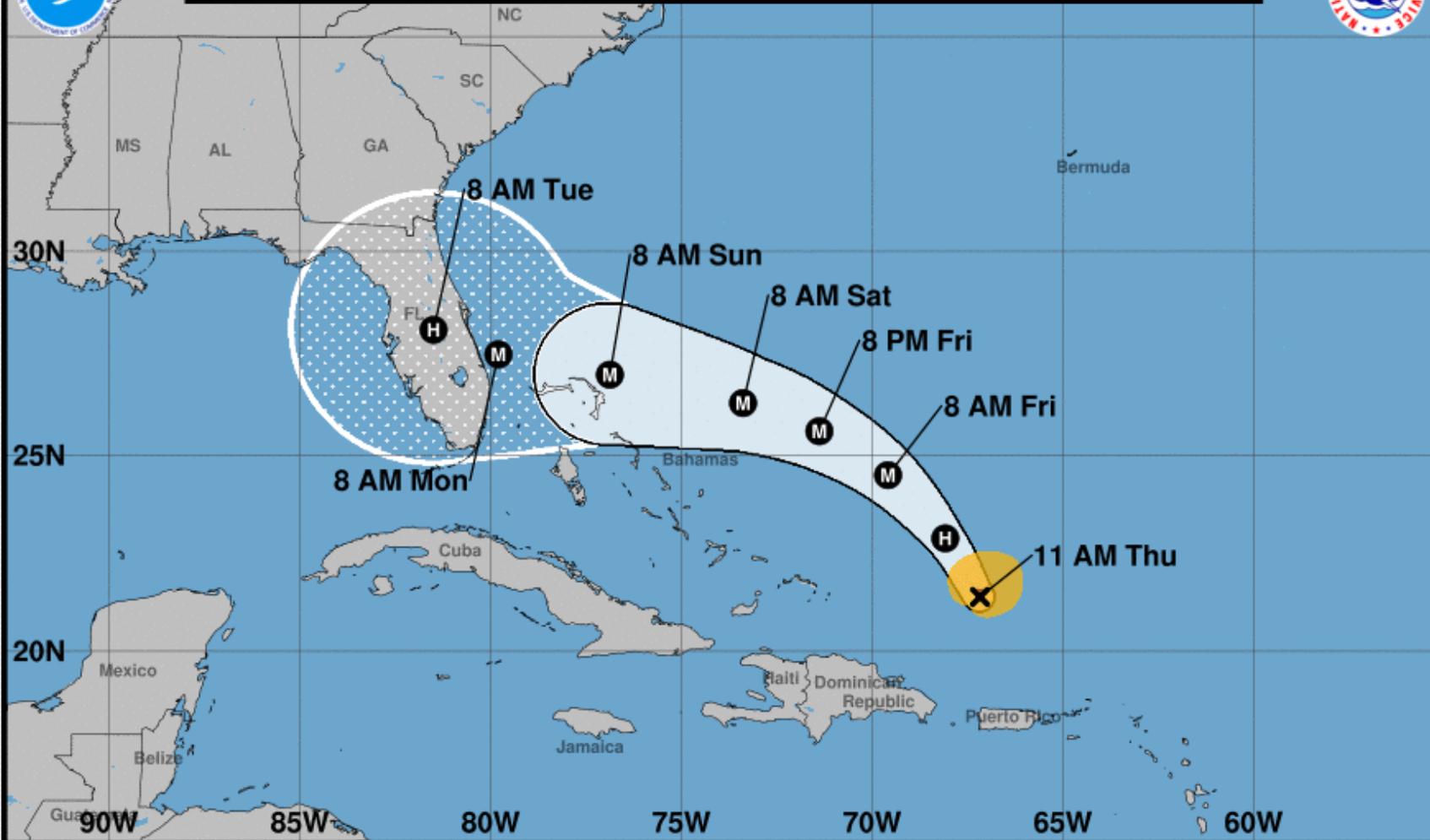
Map Labels: Tampa, Miami, Nassau, Havana, CUBA, TURKS AND CAICOS ISLANDS, CAYMAN ISLANDS, HAITI, DOMINICAN REPUBLIC, Port-au-Prince, Santo Domingo, San Juan, ANGUILLA, Kingston, Sargasso Sea

Scale: 100 mi

MapTiler © OpenStreetMap contributors Basemaps



Note: The cone contains the probable path of the storm center but does not show the size of the storm. Hazardous conditions can occur outside of the cone.



Hurricane Dorian
 Thursday August 29, 2019
 11 AM AST Advisory 21
 NWS National Hurricane Center

Current information: x
 Center location 21.4 N 67.2 W
 Maximum sustained wind 85 mph
 Movement NW at 13 mph

Forecast positions:
 ● Tropical Cyclone ○ Post/Potential TC
 Sustained winds: D < 39 mph
 S 39-73 mph H 74-110 mph M > 110 mph

Potential track area:



Watches:



Warnings:



Current wind extent:



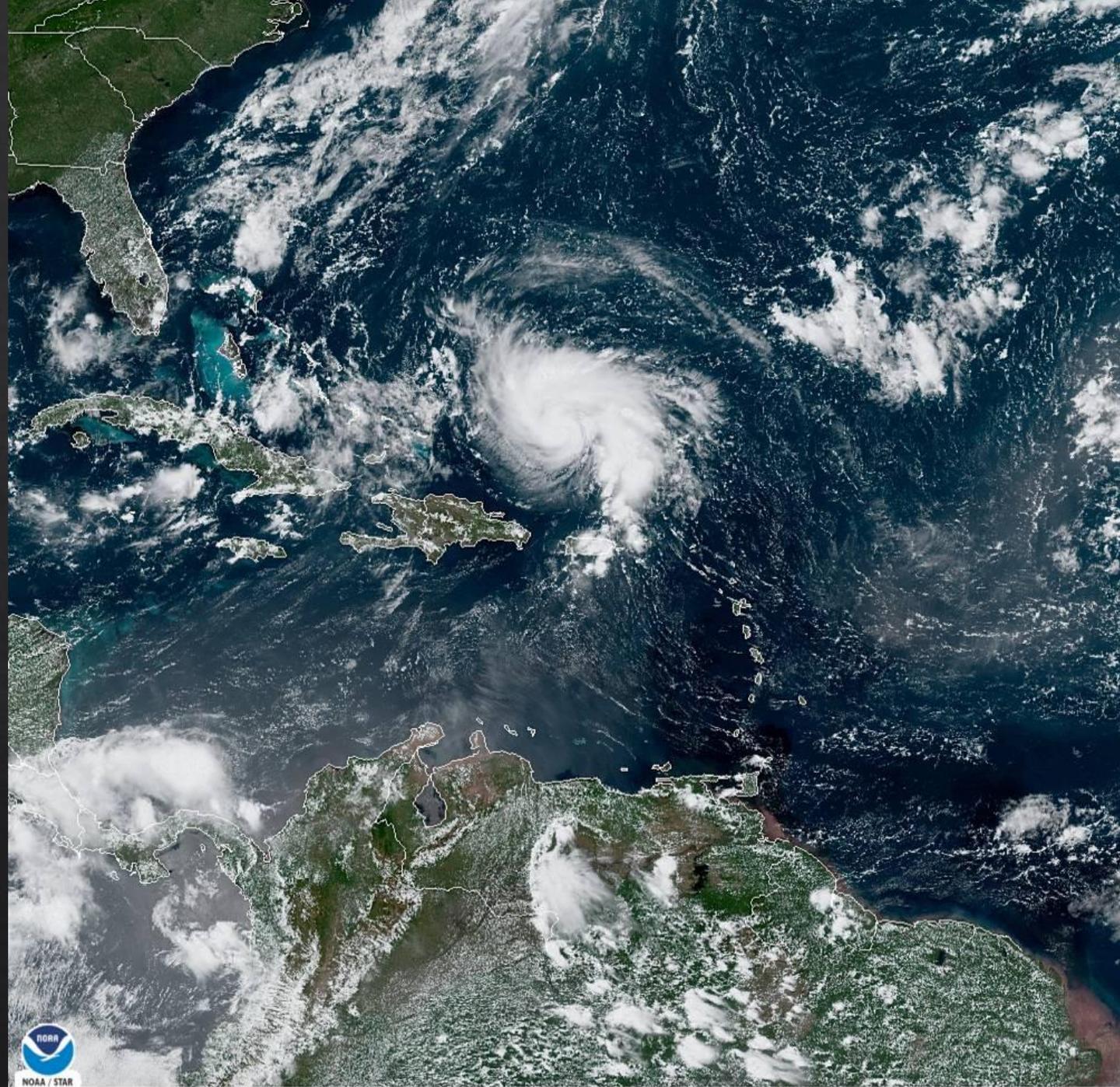
Hurricane Dorian Discussion Number 21
NWS National Hurricane Center Miami FL AL052019
1100 AM AST Thu Aug 29 2019

The small eye of Dorian has appeared intermittently in infrared satellite imagery this morning. Recent reports from a NOAA P-3 aircraft indicate that there is now a double eyewall structure, with a small inner eye only 5 n mi in diameter and a larger 25-n mi diameter outer eyewall. The minimum pressure has fallen to around 986 mb. The concentric eyewall structure is likely why the aircraft has not found any stronger winds yet in the storm, despite the decrease in central pressure. The initial intensity remains 75 kt for this advisory.

Continued

Aircraft and satellite fixes show that Dorian is moving northwestward, or 325 degrees at 11 kt. Dorian is forecast to continue moving northwestward during the next 24-36 hours between an upper-level low that will be dropping southwestward across the Florida Straits and a mid-level ridge to the northeast of the hurricane. After that time, a ridge is forecast to build to the north of Dorian, which should cause the track to bend back toward the west-northwest. The track guidance becomes more divergent beyond 72 hours, primarily due to model differences in the strength of the ridge and whether a weakness develops in the ridge late in the period. The new NHC track forecast is virtually unchanged from the previous advisory, and lies very close to the multi-model consensus. It should be noted that the ECMWF, UKMET, and HFIP corrected consensus models remain south of the official forecast. The spread of the deterministic models and the various ensemble guidance is still considerable at days 4 and 5, and it is too soon to specify where along the Florida east coast the greatest impacts could occur.

Environmental conditions consisting of warm waters and low vertical wind shear along the path of the hurricane should allow for at least steady intensification during the next 2 to 3 days. With the small inner core and favorable conditions, rapid strengthening also remains a possibility, although not likely in the very short term given the concentric eyewall structure. The updated NHC intensity forecast calls for Dorian to become a major hurricane on Friday, and shows a slightly higher peak intensity than the previous forecast. The official forecast is at the upper end of the guidance, in best agreement with the HCCA and HWRF models.



NOAA / STAR

29 Aug 2019 17:10Z NOAA/NESDIS/STAR GOES-East GEOCOLOR

