

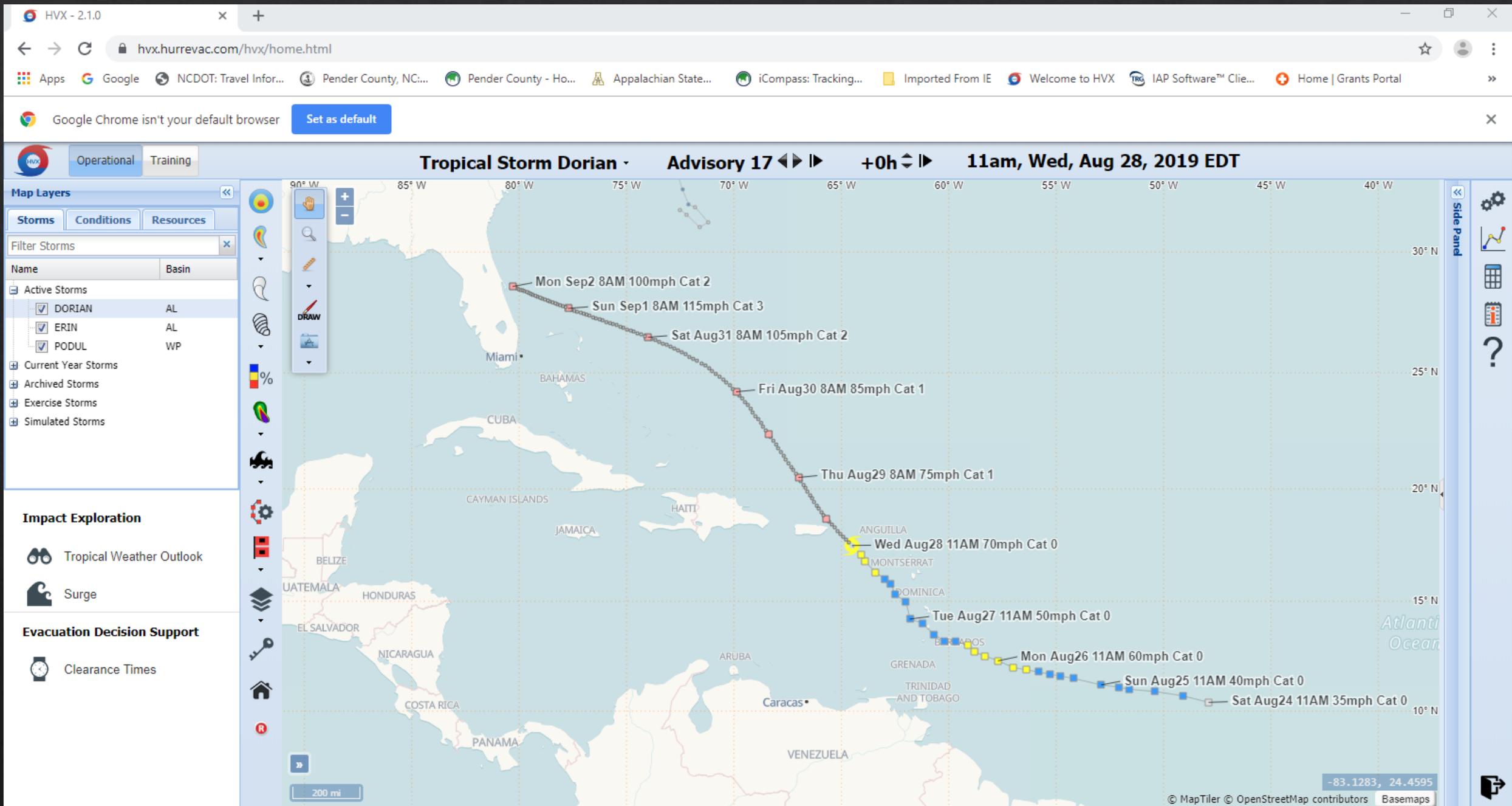
Pender County 2019 Tropical Update

August 27, 2019

TS Dorian and TS Erin



The New Hurrevac HVX



The New Hurrevac HVX

HVX - 2.1.0

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Operational Training

Tropical Depression Erin ▾ Advisory 8 ◀▶▶ +0h ◀▶▶ 11am, Wed, Aug 28, 2019 EDT

Map Layers

Storms Conditions Resources

Filter Storms

Name	Basin
Active Storms	
<input type="checkbox"/> DORIAN	AL
<input checked="" 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

200 mi

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11:52 AM

Tropical Depression Erin Discussion Number 8
NWS National Hurricane Center Miami FL AL062019
1100 AM EDT Wed Aug 28 2019

Erin has become less organized this morning with the center exposed and becoming more removed from the remaining deep convection. Satellite intensity estimates have decreased and a blend of these support an initial wind speed of 30 kt. The northwesterly shear that has been affecting Erin is forecast to decrease somewhat later today and tonight, but given the current structure of the system, little overall change in intensity is anticipated during that time. If convection does not re-develop closer to the center later today, Erin could become post-tropical. An alternate scenario is for the circulation to become elongated and lose definition as a mid-latitude trough approaches from the west. The global models suggest that the trough is likely to help Erin or its remnants deepen somewhat as an extratropical low on Thursday. The NHC intensity forecast follows suit and shows little change in strength today, then indicates that Erin or its remnants will become an extratropical gale by 36 hours.

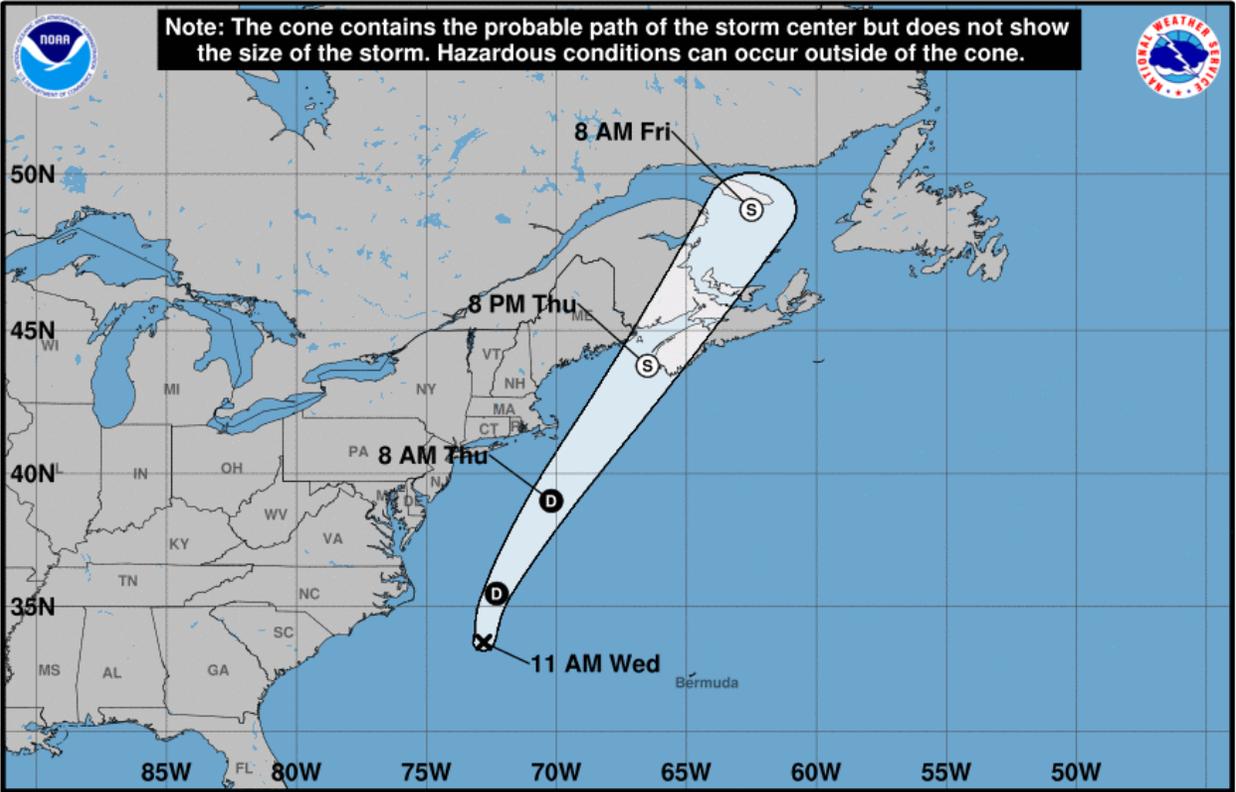
Erin is now moving north-northwestward at 11 kt. The dynamical model guidance is in good agreement on Erin turning northward and then northeastward by Thursday ahead of the aforementioned mid-latitude trough. Erin or its remnants are forecast to accelerate and reach Nova Scotia in about 36 hours. The guidance envelope has shifted slightly westward, and the updated official forecast has been adjusted accordingly.

Tropical Storm Dorian Discussion Number 17...CORRECTED
NWS National Hurricane Center Miami FL AL052019
1100 AM AST Wed Aug 28 2019

Corrected day 5 intensity forecast in table.

Satellite and radar images indicate that the cloud pattern has become better organized during the past several hours. This was confirmed by data from an Air Force reconnaissance plane currently investigating Dorian, which reported a flight-level wind of 72 kt and a peak SFMR value of 60 kt. The estimated central pressure was 999 mb in the last fix. On this basis the initial intensity has been adjusted upward to 60 kt. Only a slow strengthening is anticipated today while Dorian is moving through the U.S. and British Virgin Islands. However, once the cyclone reaches the western Atlantic well east of the Bahamas, it will encounter a favorable environment of low shear and warm waters, resulting in a more marked intensification. The NHC forecast is more aggressive than the previous one, and brings Dorian to category 3 intensity by the end of the period. This forecast very closely follows the intensity consensus, the HCCA model, and the SHIPS guidance.

Fixes from the reconnaissance plane indicate that Dorian has been moving toward the northwest or 315 degrees at 11 kt. The cyclone is heading toward a weakness in the Atlantic subtropical ridge, and this motion should continue for the next 2 to 3 days. However, after that time, all global models build a robust ridge over the western Atlantic, and this flow pattern should force Dorian to turn more to the west-northwest toward Florida and the southeast coast of the United States. All indications are that by this Labor Day weekend, a powerful hurricane will be near the Florida or southeastern coast of the United States. The new NHC track forecast is not significantly different from the previous one, and it very closely follows the multi-model consensus TVCA and the HCCA. Users are reminded not to focus on the exact forecast track, as the average 5-day track error is around 200 miles.



Tropical Depression Erin
 Wednesday August 28, 2019
 11 AM EDT Advisory 8
 NWS National Hurricane Center

Current information: x
 Center location 33.6 N 72.8 W
 Maximum sustained wind 35 mph
 Movement NNW 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: Day 1-3 Day 4-5
Watches: Hurricane Trop Stm
Warnings: Hurricane Trop Stm
Current wind extent: Hurricane Trop Stm



Tropical Storm Dorian
 Wednesday August 28, 2019
 11 AM AST Advisory 17
 NWS National Hurricane Center

Current information: x
 Center location 17.5 N 64.5 W
 Maximum sustained wind 70 mph
 Movement NW at 13 mph

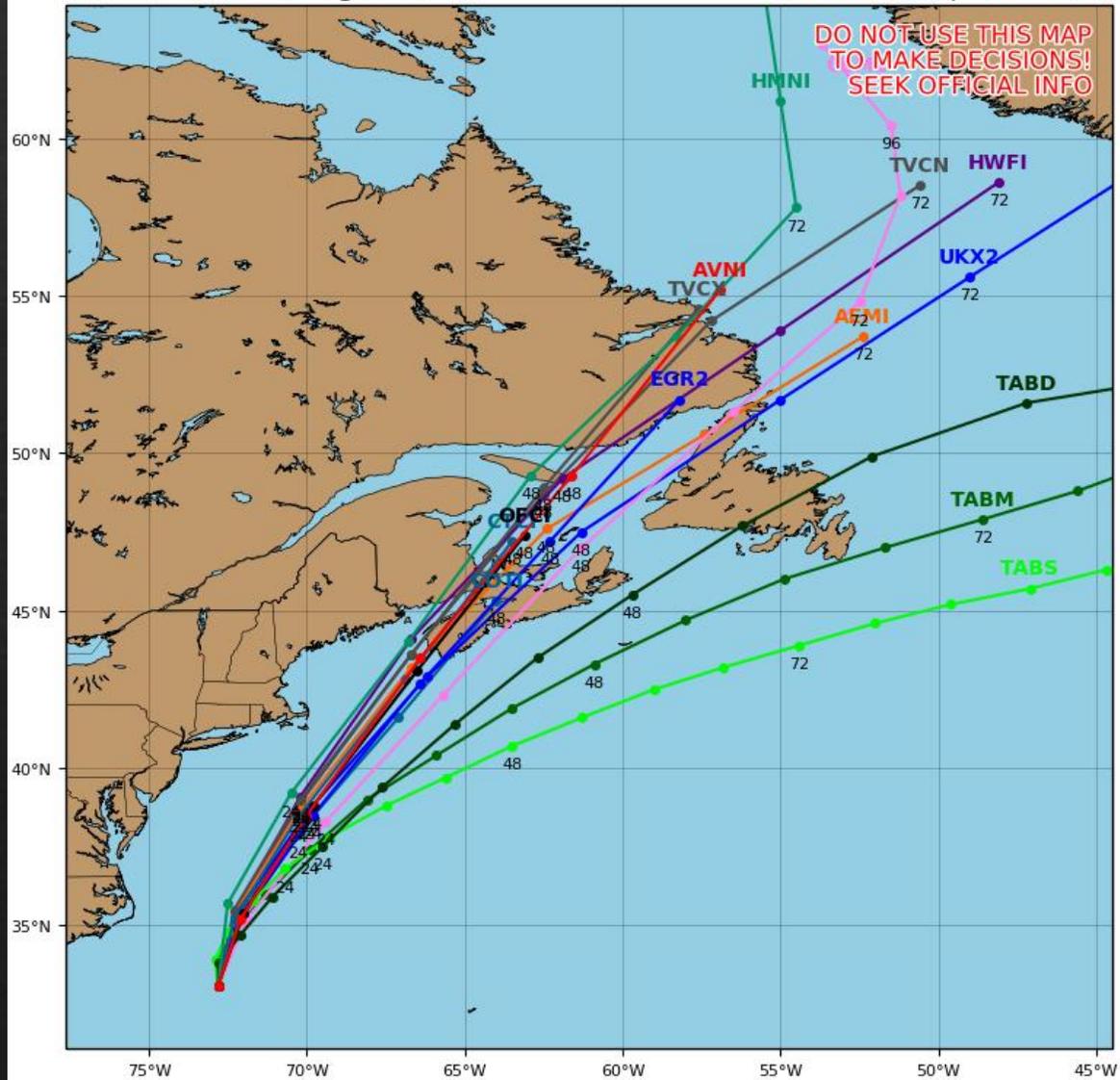
Forecast positions:
 ● Tropical Cyclone ○ Post/Potential TC
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Potential track area: Day 1-3 Day 4-5
Watches: Hurricane Trop Stm
Warnings: Hurricane Trop Stm
Current wind extent: Hurricane Trop Stm

Tropical Storm ERIN Model Track Guidance

Initialized at 12z Aug 28 2019

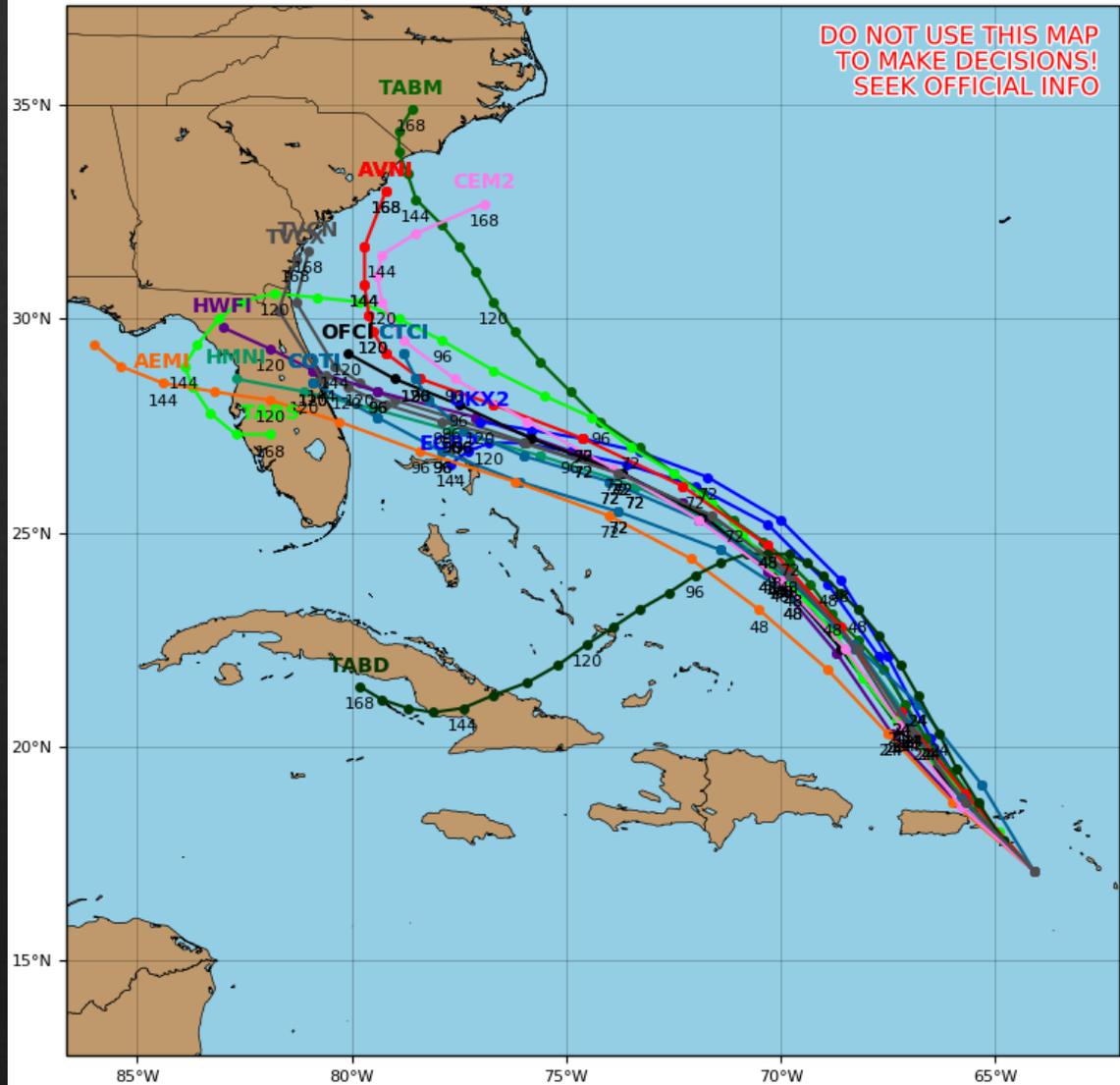
Levi Cowan - tropicaltidbits.com



Tropical Storm DORIAN Model Track Guidance

Initialized at 12z Aug 28 2019

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TD Erin



TS Dorian

