



HURRICANE DORIAN BRIEFING

7:30 AM EDT

Tuesday, September 3, 2019

Prepared by: *WFO Newport/Morehead City, NC*

What has changed: Confidence continues to increase that eastern NC will see significant impacts from Dorian.

Next Briefing: Issued by 7:00 PM EDT Tuesday

Disclaimer: The information contained within is time-sensitive. Do not use after 7:00 PM EDT Tuesday.






Situation Overview

Hurricane Dorian



Newport/Morehead City, NC

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Hazard	Impacts	Location	Timing
Flooding Rain 	Prolonged periods of heavy rainfall could lead to flash flooding.	Anywhere across eastern North Carolina. Based on the current track, highest totals are expected for coastal areas, closer to the center of the storm.	Wednesday into Friday.
Storm Surge/Inundation 	There is the potential for life threatening storm surge inundation.	Anywhere along the coast of eastern North Carolina – highly track dependent.	Wednesday night through Friday.
Wind 	There is the potential for life threatening winds/wind damage.	Anywhere across eastern North Carolina, but based on current track highest threat is along the coast.	Wednesday night through Friday.
Tornado 	There is the potential for increased tornado activity.	Anywhere across eastern North Carolina, with east side of storm being favored location.	Wednesday night through Friday.
Marine 	Very dangerous to extreme marine conditions are likely.	All coastal and nearshore waters.	Wednesday through Saturday.

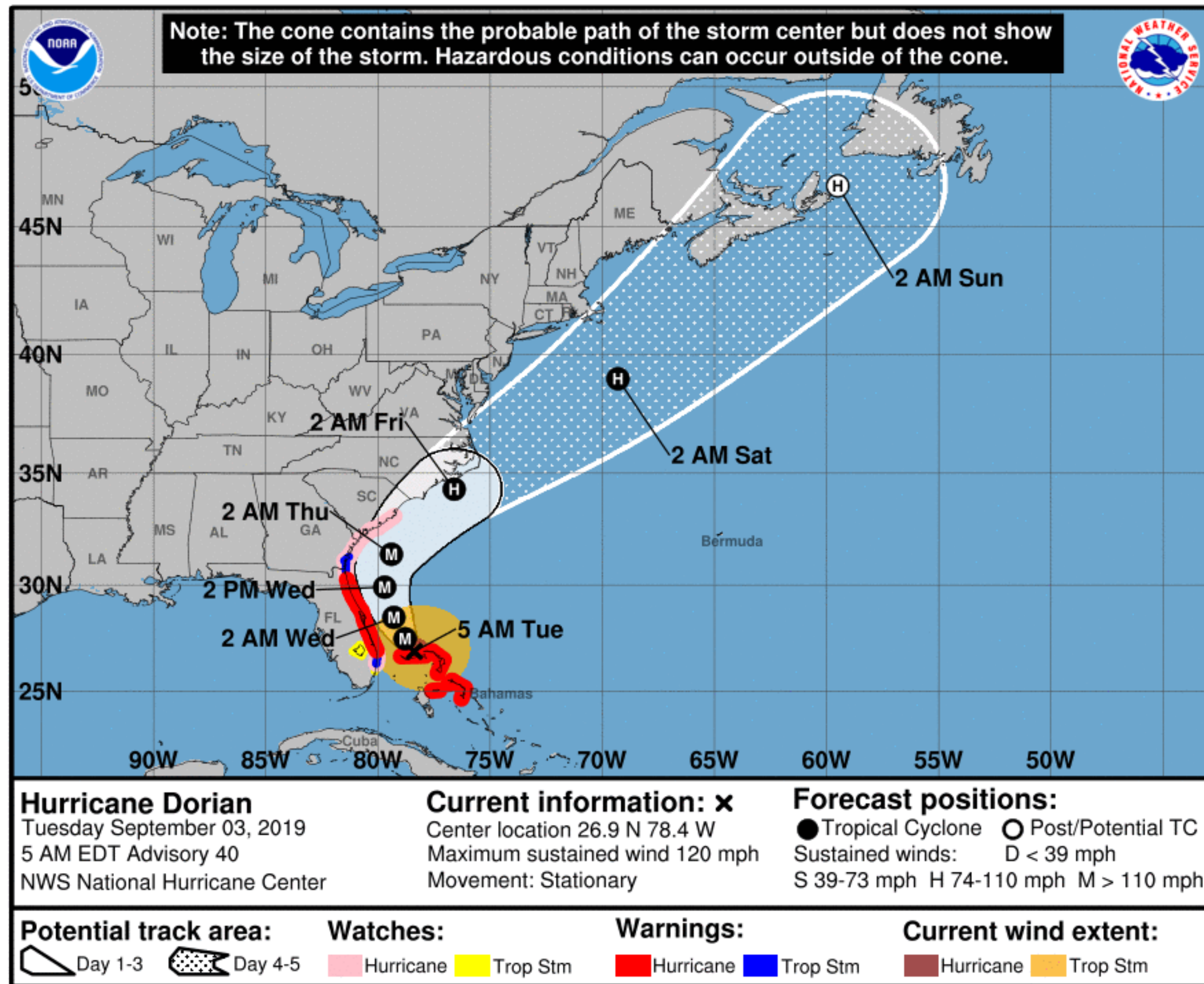
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NOTE: Do not focus on the exact track. Impacts can occur well outside the area enclosed by the cone.

Immediate Concerns to Eastern North Carolina

- High risk for rip currents and hazardous seas.

Upcoming Concerns to Eastern North Carolina

- Confidence is high that we will see direct impacts, possibly starting as early as late Wednesday, with greatest impacts likely Thursday and Friday.

- Increasing confidence in Dorian's forecast track, but significant changes are still possible.

Key Takeaways

- Don't focus on the track alone. Impacts will occur well away from the center. Remember the category of the storm is **ONLY** related to wind, it says nothing about the impacts of heavy rain, storm surge, tornadoes etc.

- Now is the time to complete your hurricane preparedness plans.

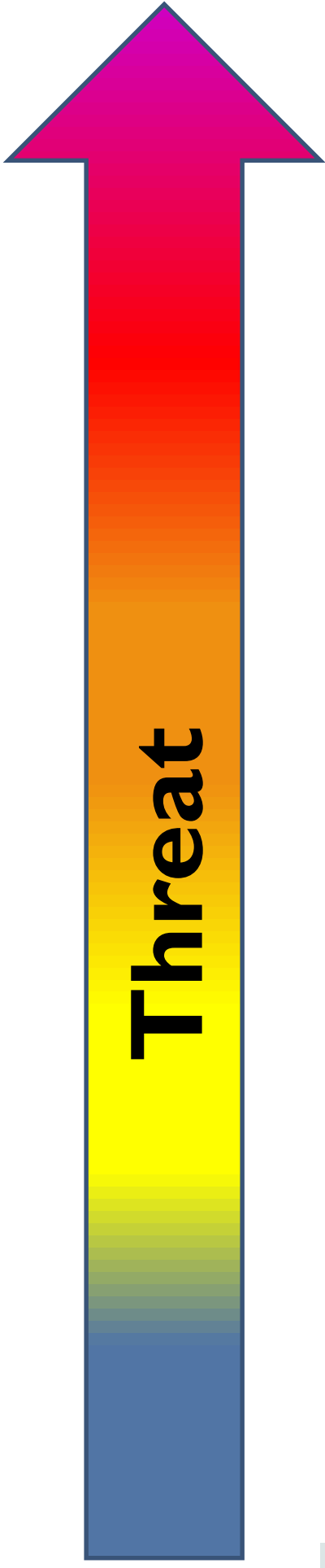
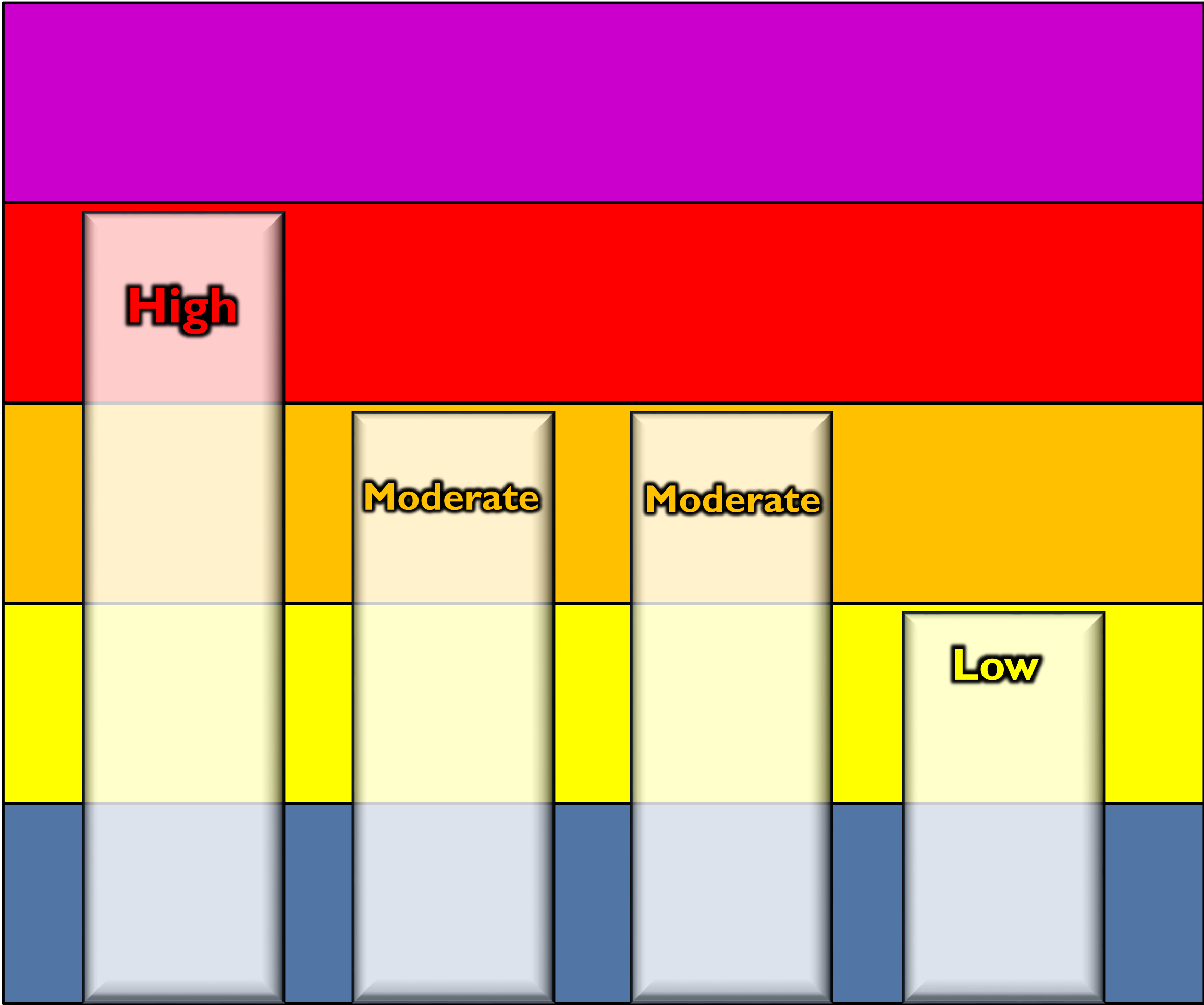
Threat Levels

Hurricane Dorian

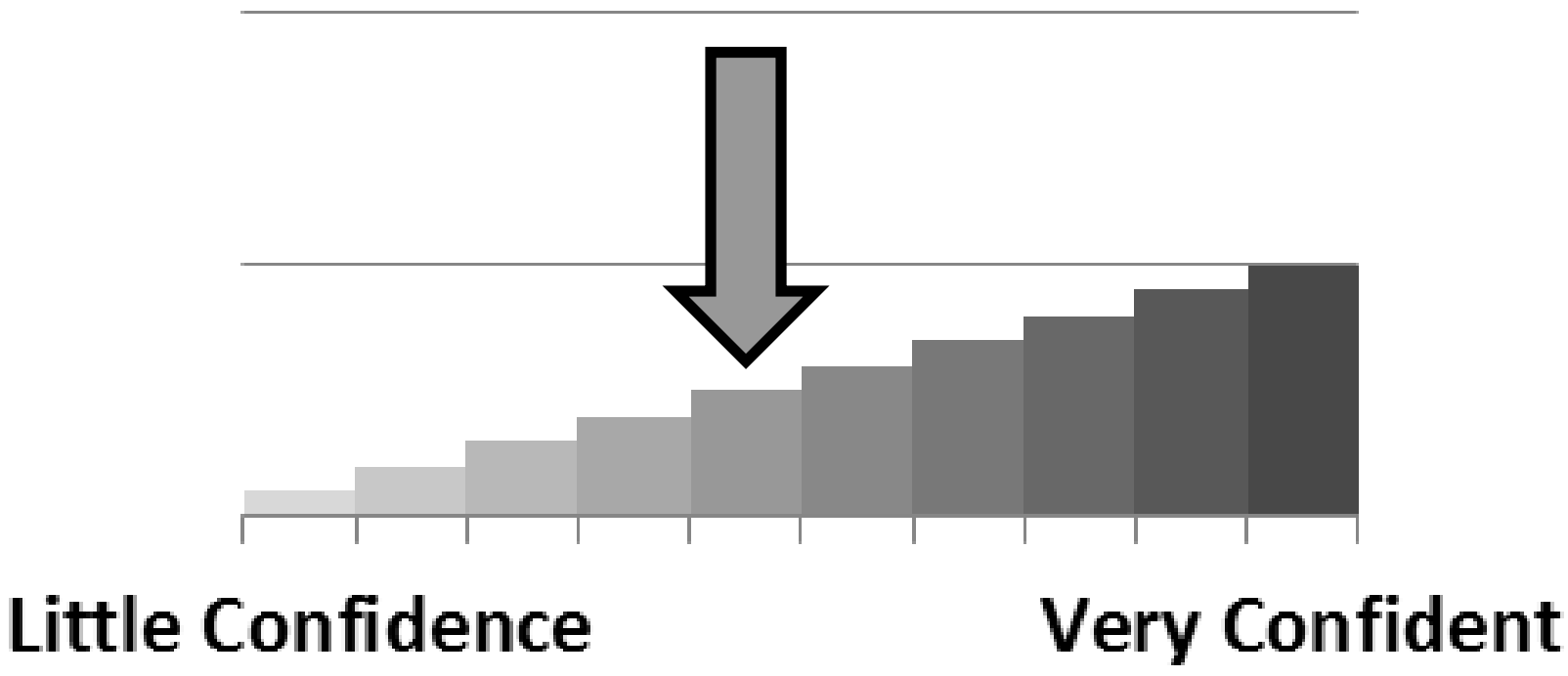


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Forecast Confidence



Confidence continues to increase that there will be prolonged heavy rainfall in eastern NC. Confidence is beginning to increase in other threats which are highly track-dependent.

For information on specific hazards in this area, please go to [weather.gov/mhx/tropical](https://www.weather.gov/mhx/tropical)

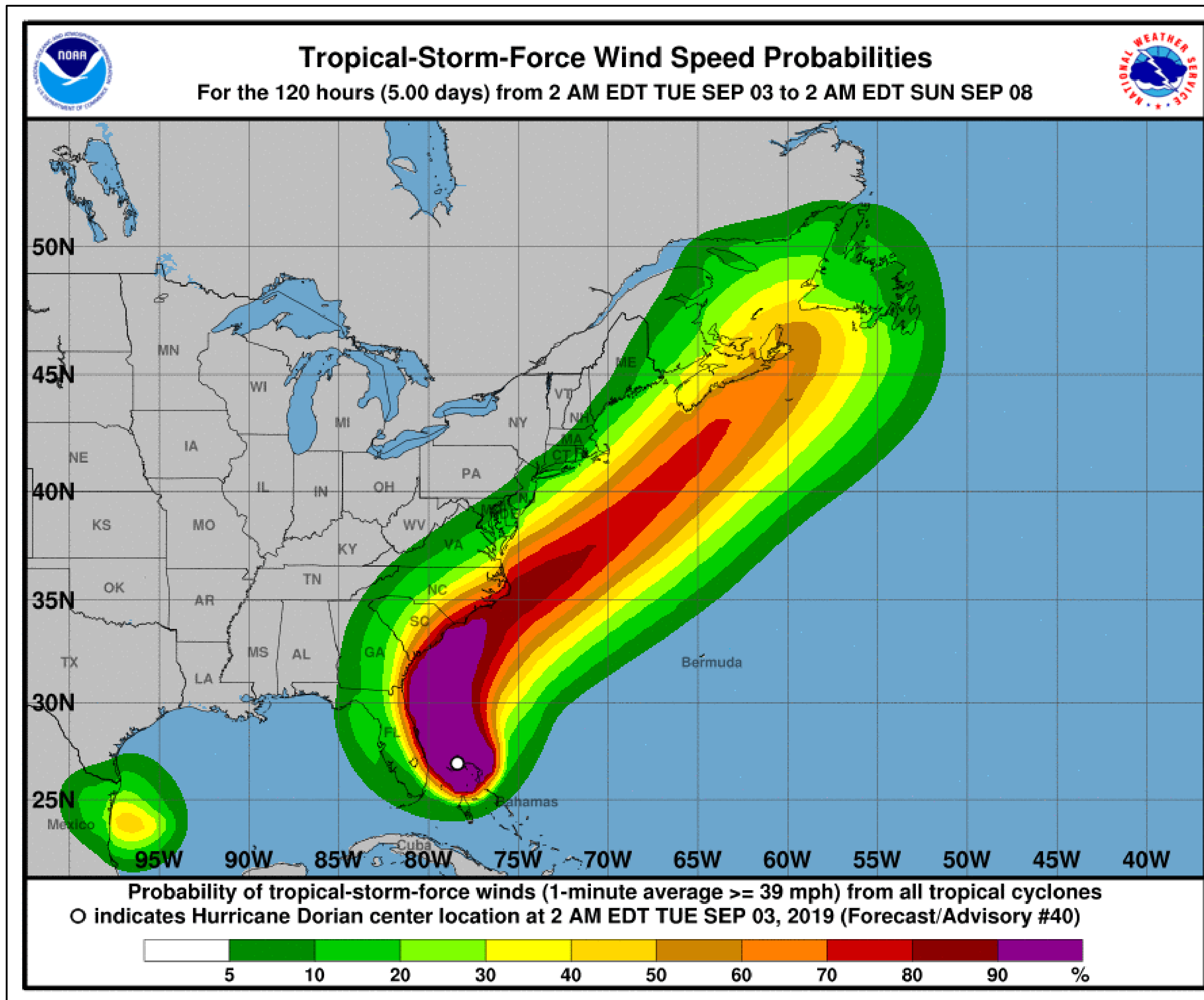
TS Wind Speed Probabilities

Hurricane Dorian



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- The threat for tropical storm force winds has increased further, mainly along the coast where they are now very likely.
- Tropical storm force winds may arrive as early as late Wednesday night, but are most likely to arrive Thursday morning and continue into Friday.

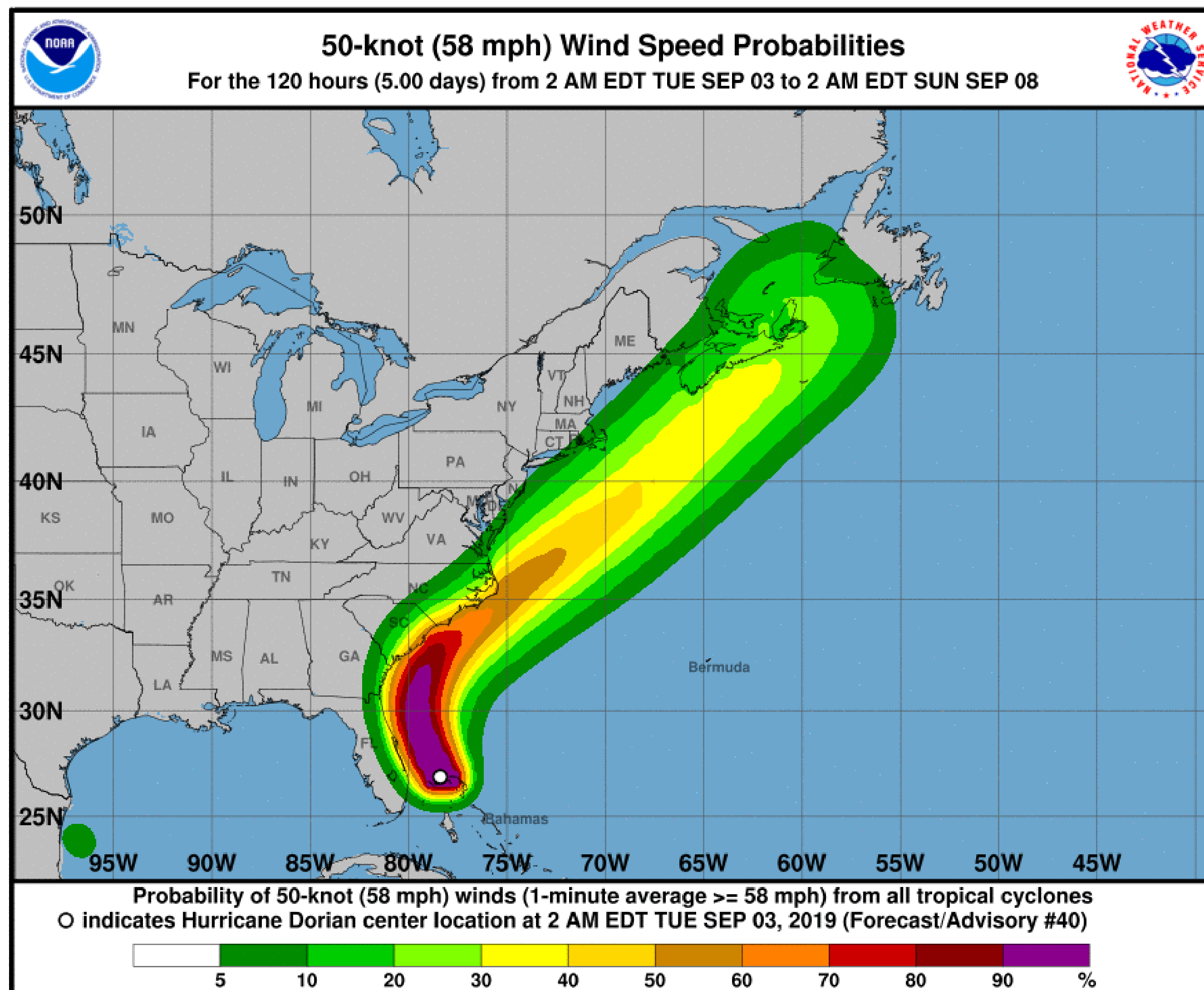
50 Knot Wind Speed Probabilities

Hurricane Dorian



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- The threat for 50 knot winds has increased and remains highest along the coast.
- Probability of 50 knot winds is likely to increase as arrival time gets closer.
- Monitor trends with future updates.

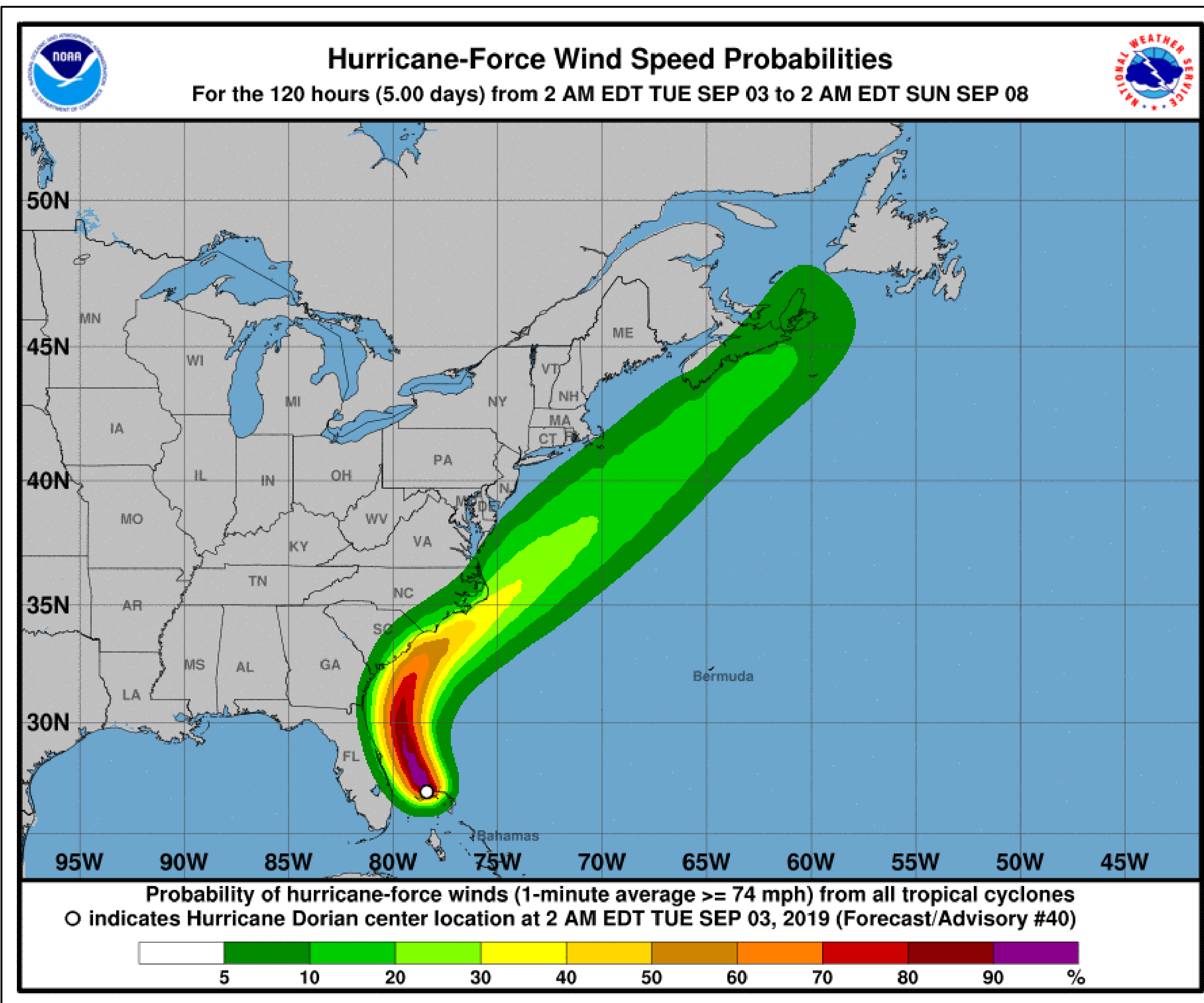
Hurricane Wind Speed Probabilities

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- The threat for hurricane force winds has increased slightly with the highest threat along the immediate coast.
- Probability of hurricane force winds may increase as arrival time gets closer.
- Monitor trends with future updates.

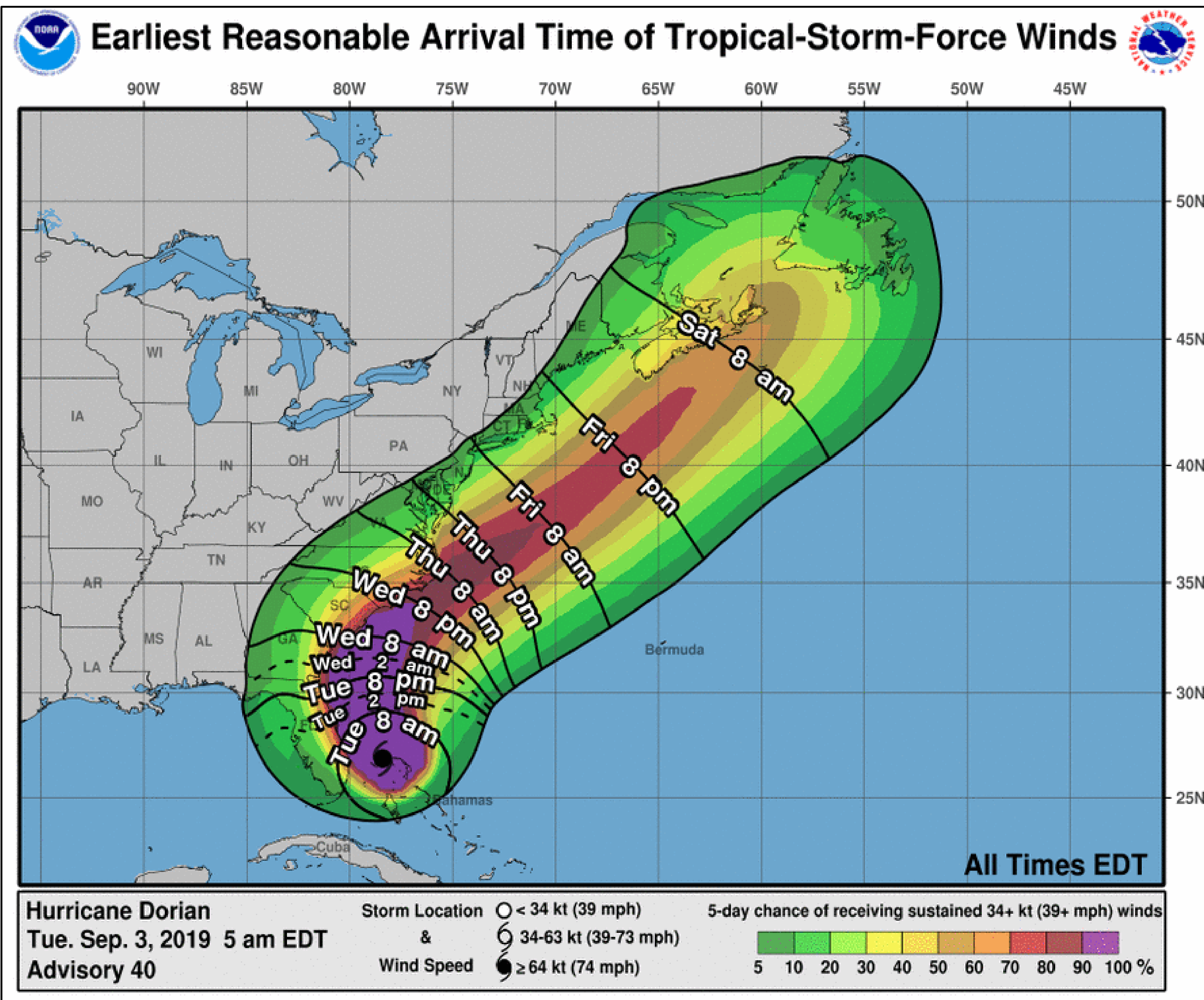
Earliest Reasonable Time of Arrival

Hurricane Dorian



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- The earliest reasonable time of arrival of tropical storm force winds for eastern North Carolina is sometime late Wednesday night.
- All preparations should be completed by the daytime Wednesday.
- However, the most likely time this area could see Tropical Storm Force Winds will be sometime Thursday.

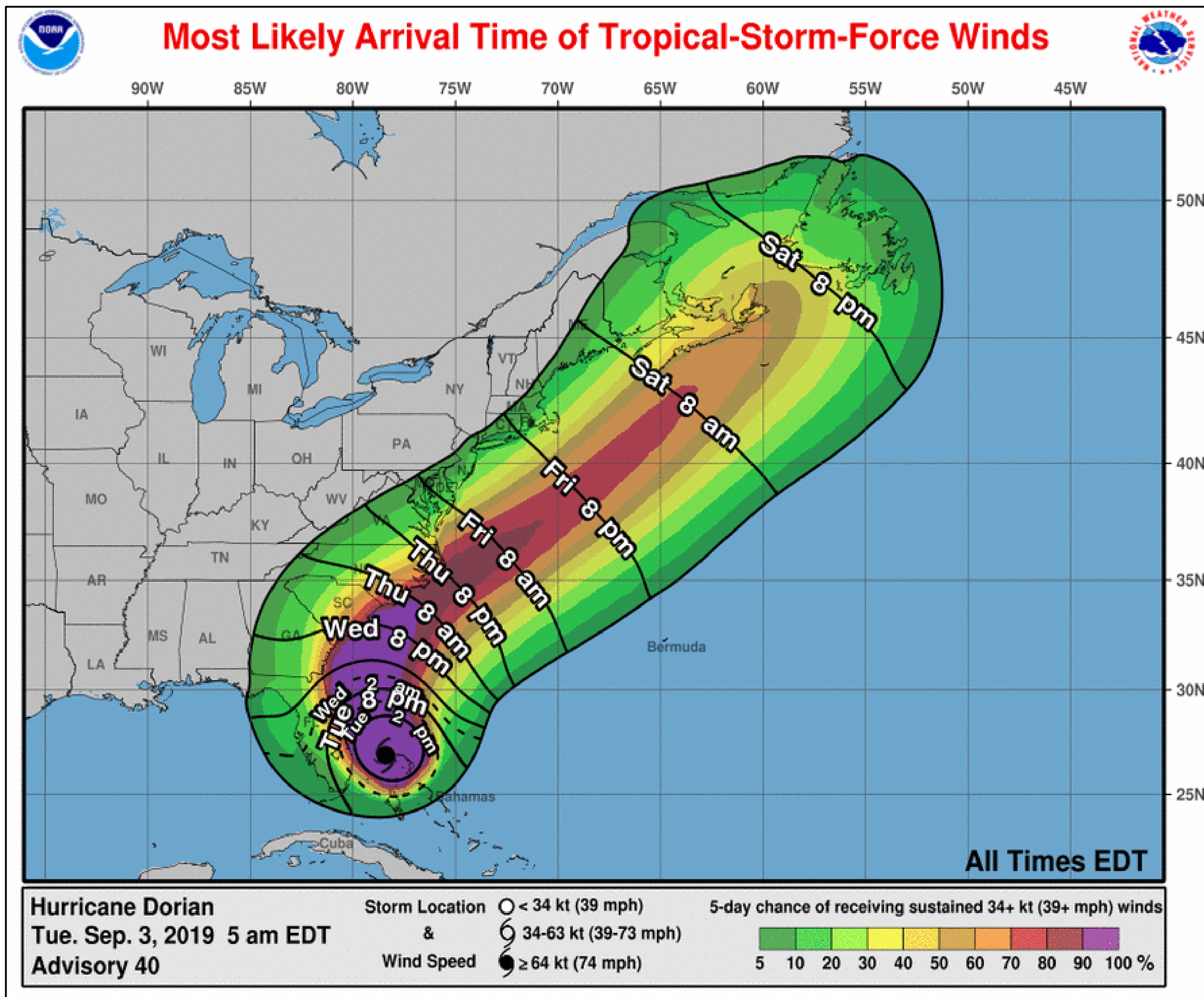
Most Likely Time of Arrival

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- The most likely time of arrival of tropical storm force winds for eastern North Carolina is sometime Thursday.
- However, this area could see tropical storm force winds as early as late Wednesday night.

Expected Storm Total Rainfall

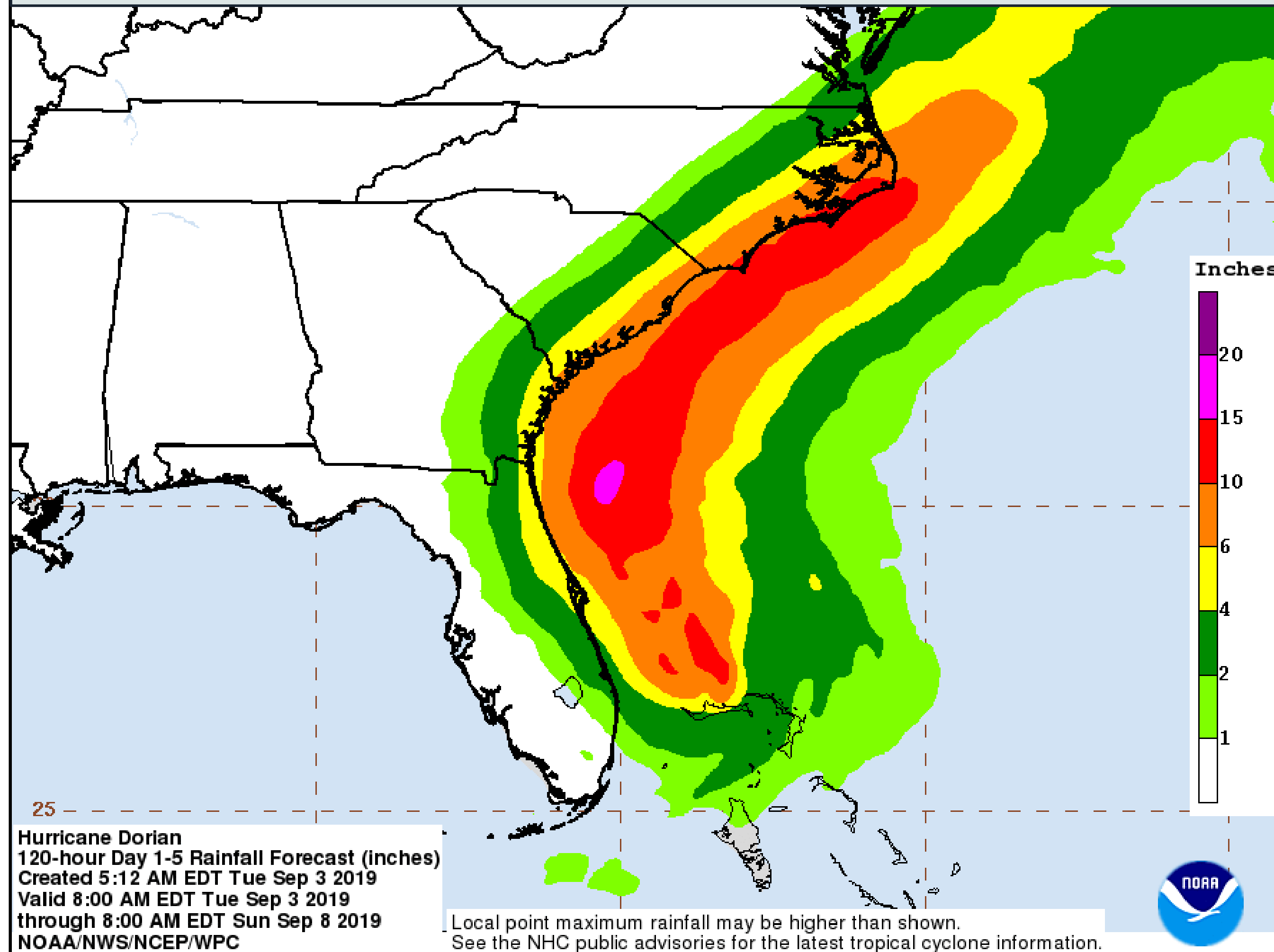
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Note: Locally higher amounts up to 15 inches are possible.



- Storm total rainfall forecast valid Wednesday through Saturday morning.
- Locally, most rain will occur Wednesday through Friday.
- The swath of highest totals could shift with the forecast track.

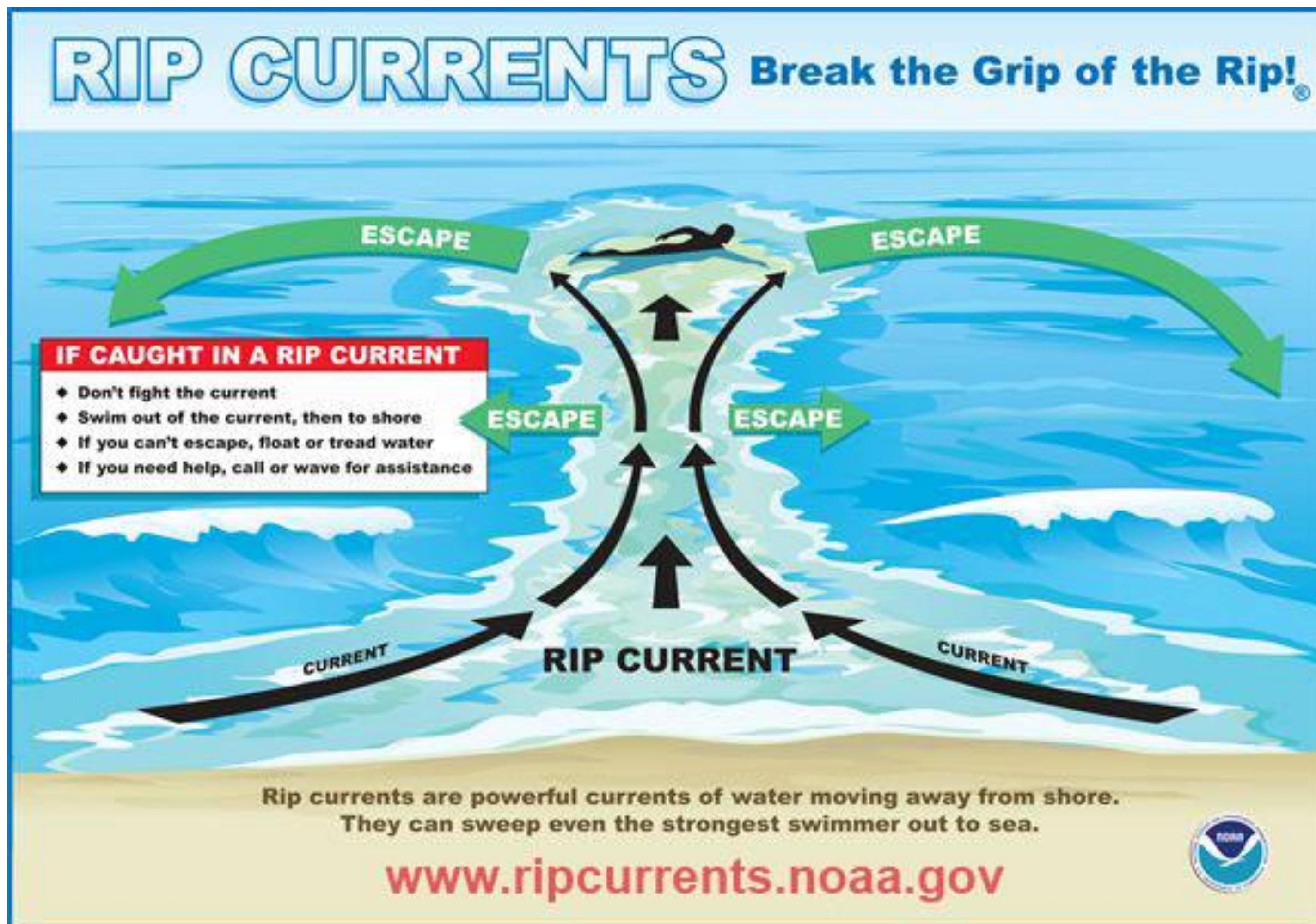
High Risk For Rip Currents

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- Large swell from Dorian will continue to impact the eastern NC coast this week.
- High risk for rip currents will continue through the week.

Key Take-Aways

Hurricane Dorian



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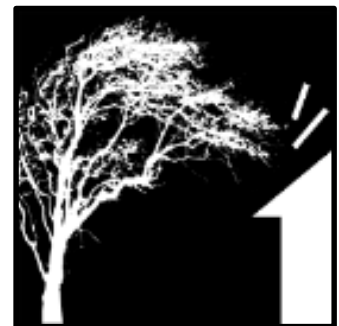
- ✓ Confidence is **HIGH** that the event will occur
- ✓ Confidence remains **LOW** regarding exact impacts



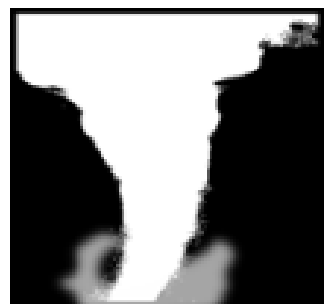
Prolonged periods of heavy rainfall could lead to flash flooding.



There is the potential for life threatening storm surge inundation.



There is the potential for life threatening winds/wind damage.



There is the potential for increased tornado activity.



Very dangerous to extreme marine conditions expected. High risk for rip currents continues.



Contact and Next Briefing Information

Next Briefing:
When: By 7:00 PM EDT Tuesday
Method: E-mail



Web: <http://weather.gov/newport>



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