

# Tropical Storm Florence

**Decision Support Briefing # 5**  
**As of: 7 AM Sunday Sept 9, 2018**



### ***What has changed?***

- ✓ Included Impact Matrix slide
- ✓ Swath of total rainfall has increased
- ✓ TS and Hurricane Force Wind Probabilities increased

# Situational Overview

- ✓ Florence is expected to strengthen into a dangerous major hurricane near the Southeast U.S. Coast later this week, and the risk of direct impacts continues to increase
- ✓ Large swells will affect adjacent Atlantic waters and area beaches through the upcoming week. The swells will create rough surf, life-threatening rip currents, and dangerous boating conditions
- ✓ All interests in the Carolinas are strongly encouraged to closely monitor this potentially dangerous situation and to begin preparing emergency kits

# Main Points

Hazard	Impacts	Location	Timing
<b>Wind</b> 	<p>Too much uncertainty at this time; however potentially dangerous impacts are possible if the storm continues to track toward the Carolinas</p>	<p>northeast SC and southeast NC</p>	<p>Thursday into Friday</p>
<b>Storm Surge/ Inundation</b> 	<p>Too much uncertainty at this time; however potentially dangerous impacts are possible if the storm continues to track toward the Carolinas</p>	<p>All coastal areas and tidally connected creeks, bays, and waterways</p>	<p>Thursday into Friday</p>
<b>Flooding Rain</b> 	<p>Flooding of low-lying and poor drainage areas likely, but amount and distribution is highly track dependent</p>	<p>Southeast NC and northeast SC</p>	<p>Thursday into Friday</p>
<b>Tornado</b> 	<p>A few tornadoes are possible, but it is too early to tell with certainty</p>	<p>Southeast NC and northeast SC</p>	<p>Thursday into Friday</p>
<b>Marine</b> 	<p>High likelihood of dangerous maritime and surf conditions developing</p>	<p>Surf zone and adjacent Atlantic waters</p>	<p>Increasing during the week, but especially Wednesday through Saturday</p>

# Potential Impacts



**Wind: Limited Confidence – track dependent**



**Surge/Inundation: Limited Confidence – track dependent**



**Inland Flooding: Limited Confidence – track dependent**



**Tornado: Limited Confidence – track dependent**



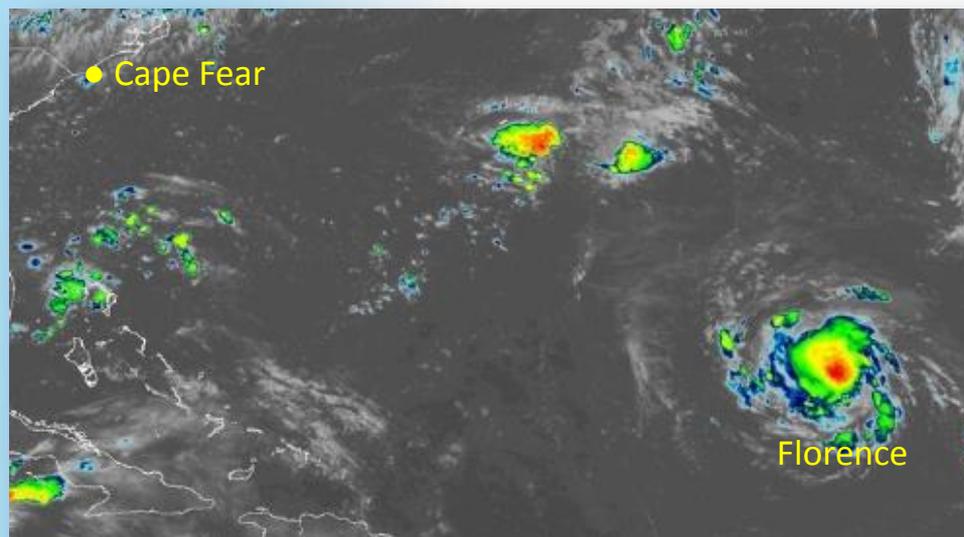
**Marine: Confident – regardless of track**



# Latest Information: Tropical Storm Florence

## OVERVIEW:

- ✓ Florence remains a tropical storm as of 5 AM Sunday
- ✓ Florence is expected to become a hurricane again today
- ✓ The storm will continue on a westerly track today, then a northwest track Wed into Fri possibly making landfall as a major hurricane

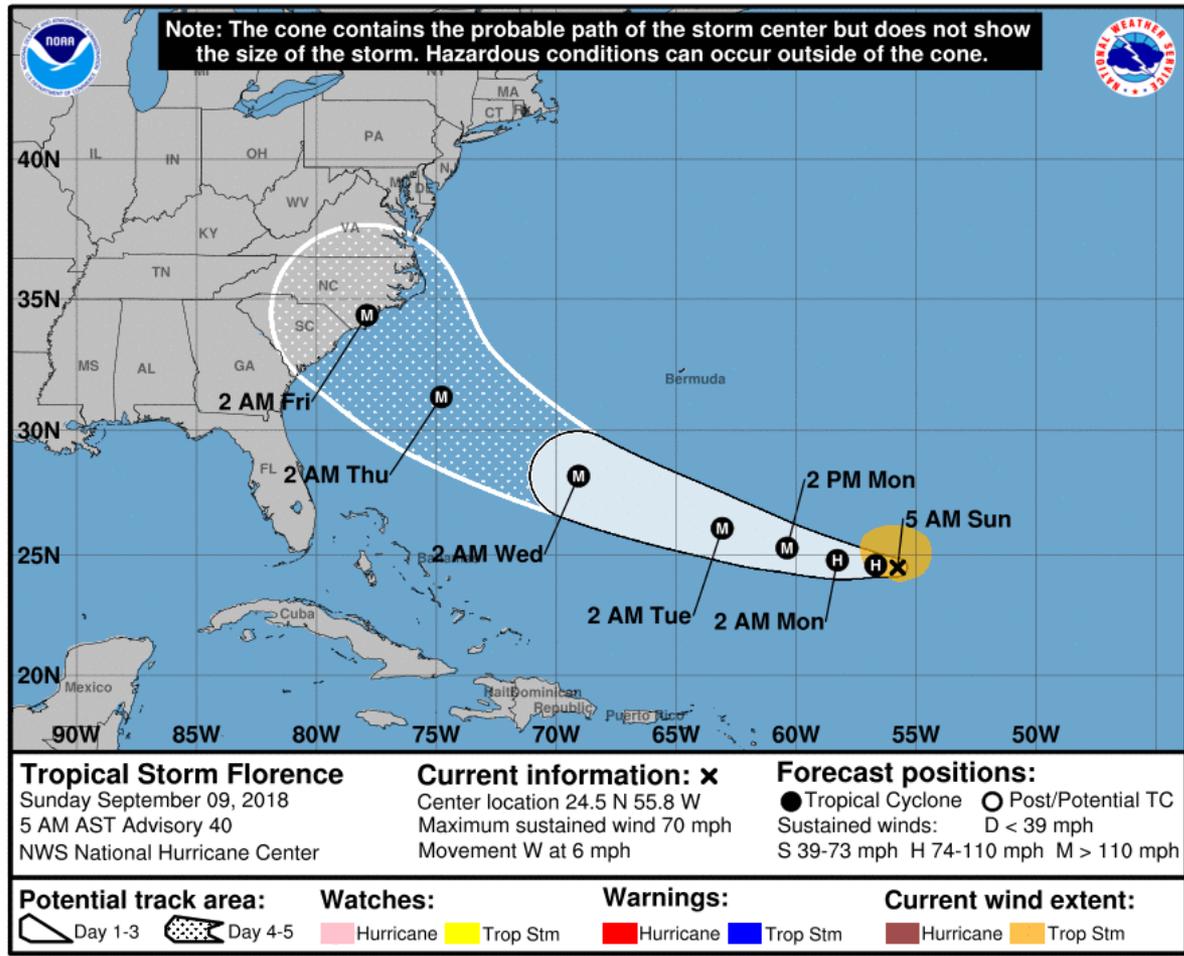


Tropical Storm Florence – IR Satellite 530 AM Sunday Sept 9, 2018

### NHC Advisory #40: 5 AM Sept 9, 2018

<b>Max Winds:</b>	70 MPH (strong TS)
<b>Location:</b>	765 miles SE of Bermuda
<b>Movement:</b>	West at 6 MPH
<b>Pressure:</b>	989 MB (29.21 inches)

# Official NHC Track Information

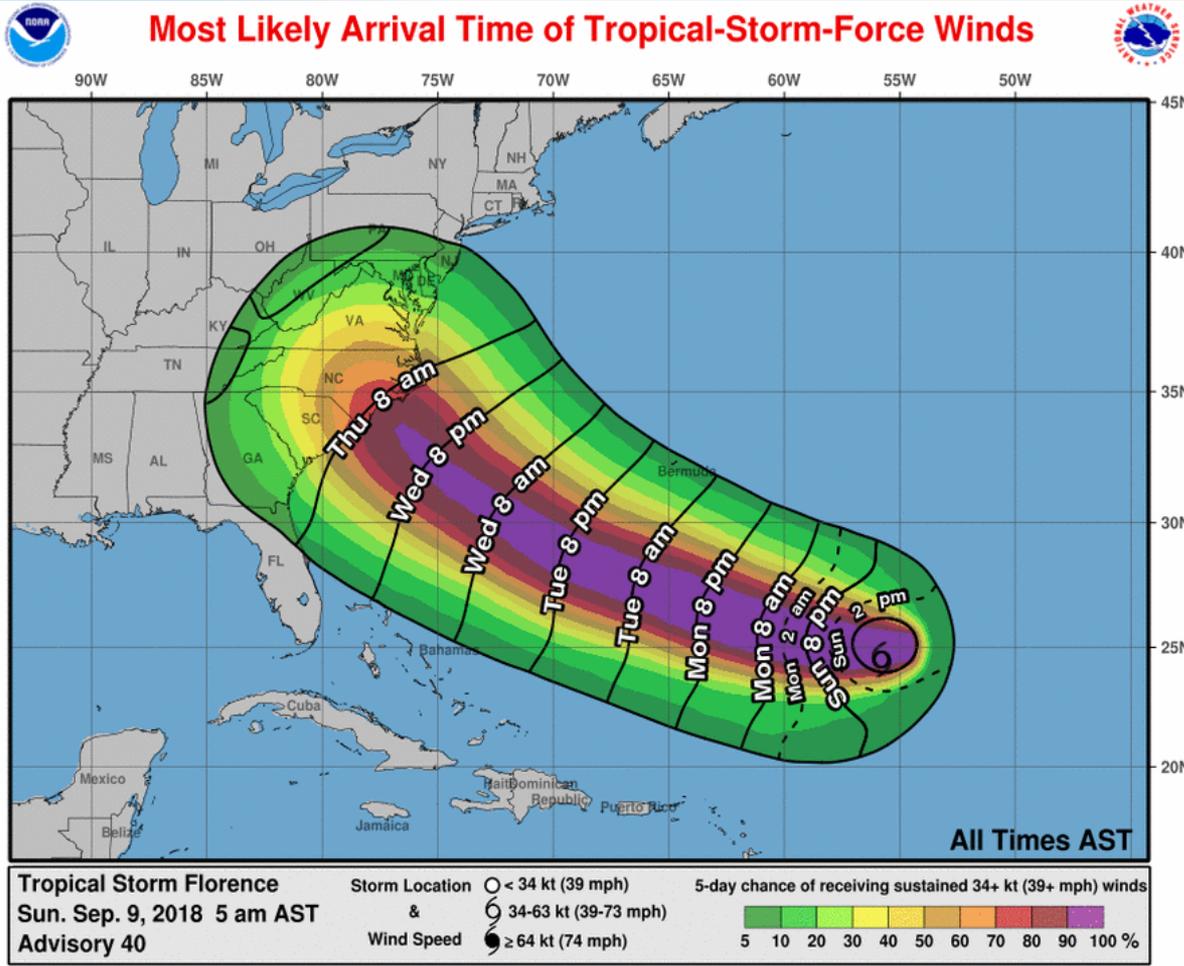


✓ Florence is forecast to become a major hurricane as it approaches the Southeast U.S. coast later this week

✓ There is a potential for significant and life-threatening impacts as a result

✓ Remember, do not focus on the exact track of the storm since impacts occur well outside the forecast cone. This is not an impact cone.

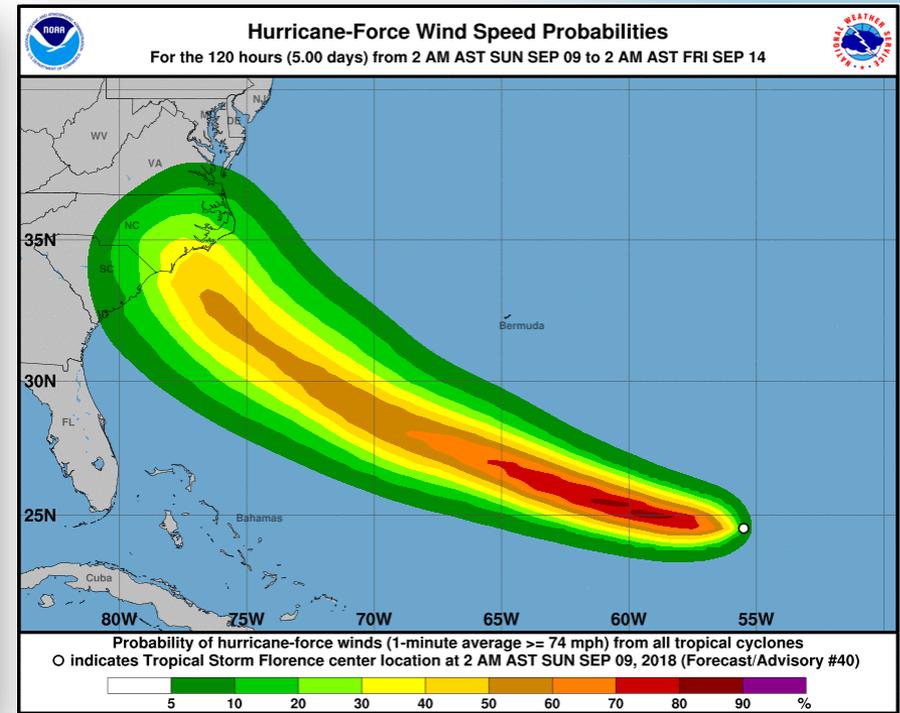
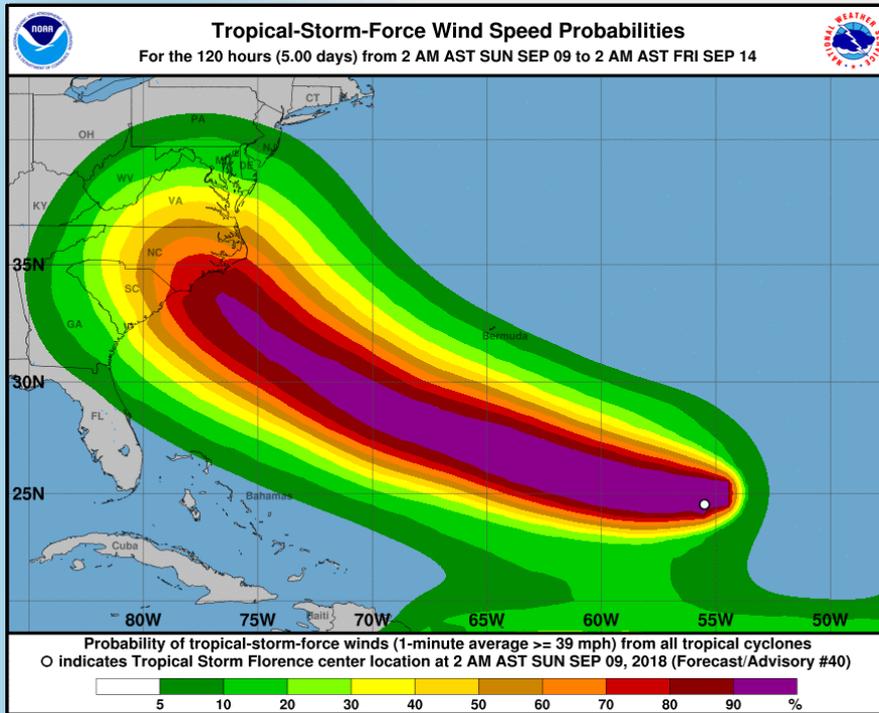
## Most Likely Arrival Time of Tropical-Storm-Force Winds



✓ Based on the latest track the tropical storm force winds are most likely to arrive at the coast by early Thu morning

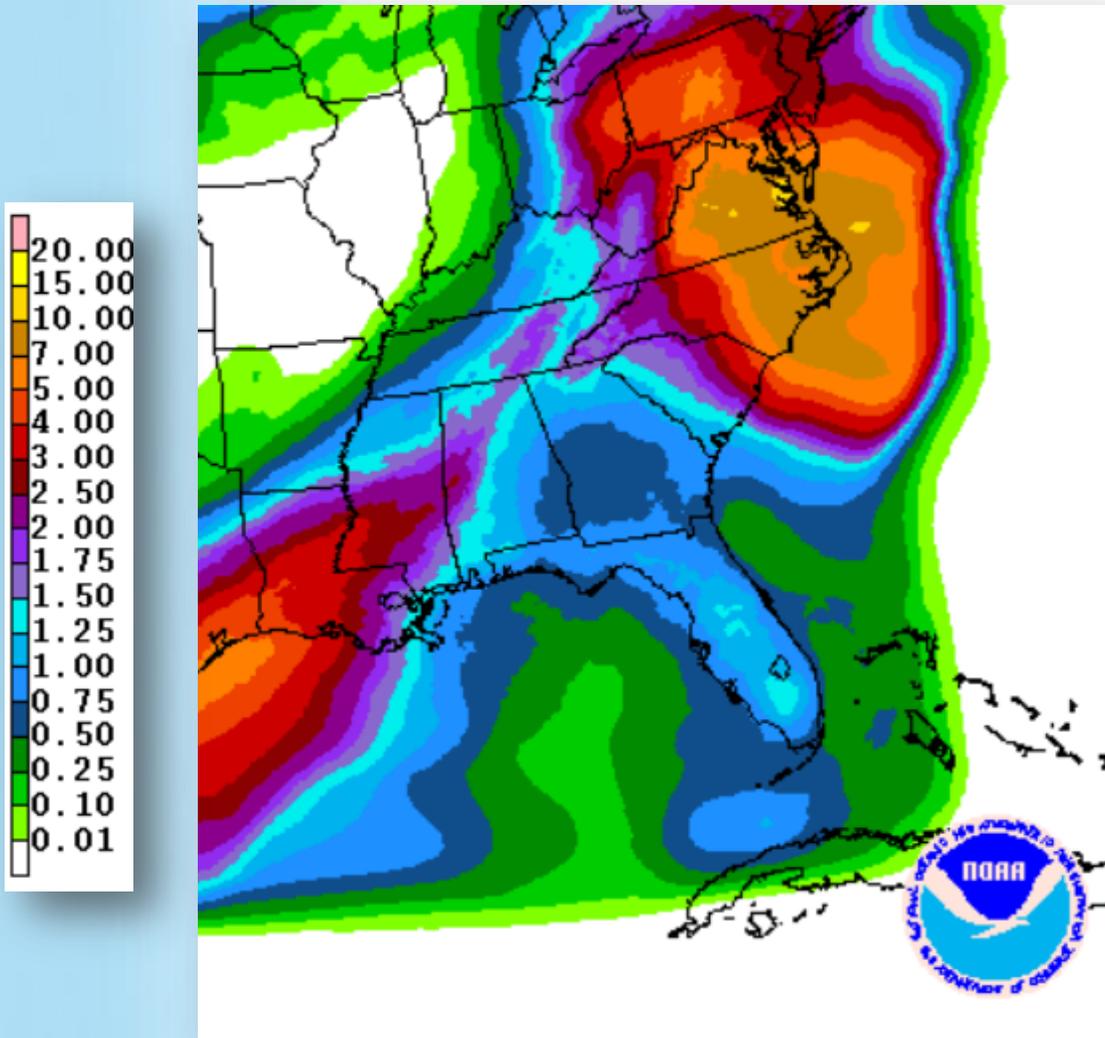
✓ Tropical storm force winds would most likely arrive at inland areas during Thursday based on the track

# Tropical Storm and Hurricane Force Probabilities



TS and Hurricane Force Wind Speed Probabilities continue to increase across the Carolinas highlighting indicating the risk for wind impacts is increasing, especially across northeast SC and southeast NC.

# Potential Rainfall



✓ Florence could produce a large swath of 7-10 inch rainfall amounts, especially across eastern NC

✓ The total amount and distribution will greatly depend on the eventual track

✓ Rainfall amounts over the last 30 days have only been 5 to 50% of normal for most areas in northeast SC & southeast NC

✓ Regardless, those areas that receive excessive rainfall could expect flooding, especially across low-lying and prone locations

## Key Points

-  Florence is expected to strengthen into a dangerous major hurricane near the southeast U.S. coast later this week and the risk of direct impacts continues to increase
-  Florence will produce large swells and result in rough surf, life-threatening rip currents, and dangerous boating conditions
-  All interests in the Carolinas and those with maritime operations on the adjacent Atlantic waters should closely monitor the progress of Florence
-  Be prepared! – Review your hurricane plan if you have not done so already, then begin to put together your emergency kit containing enough water and non-perishable food, consider where you may go if evacuations are ordered. Visit <https://www.weather.gov/safety/hurricane-plan> or <https://www.ready.gov/hurricanes> for additional information

# Contact and Next Briefing Information



**Next Briefing**  
*When: By 530 PM on Sun Sept. 9 2018*

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