



TROPICAL UPDATE

11 AM EDT

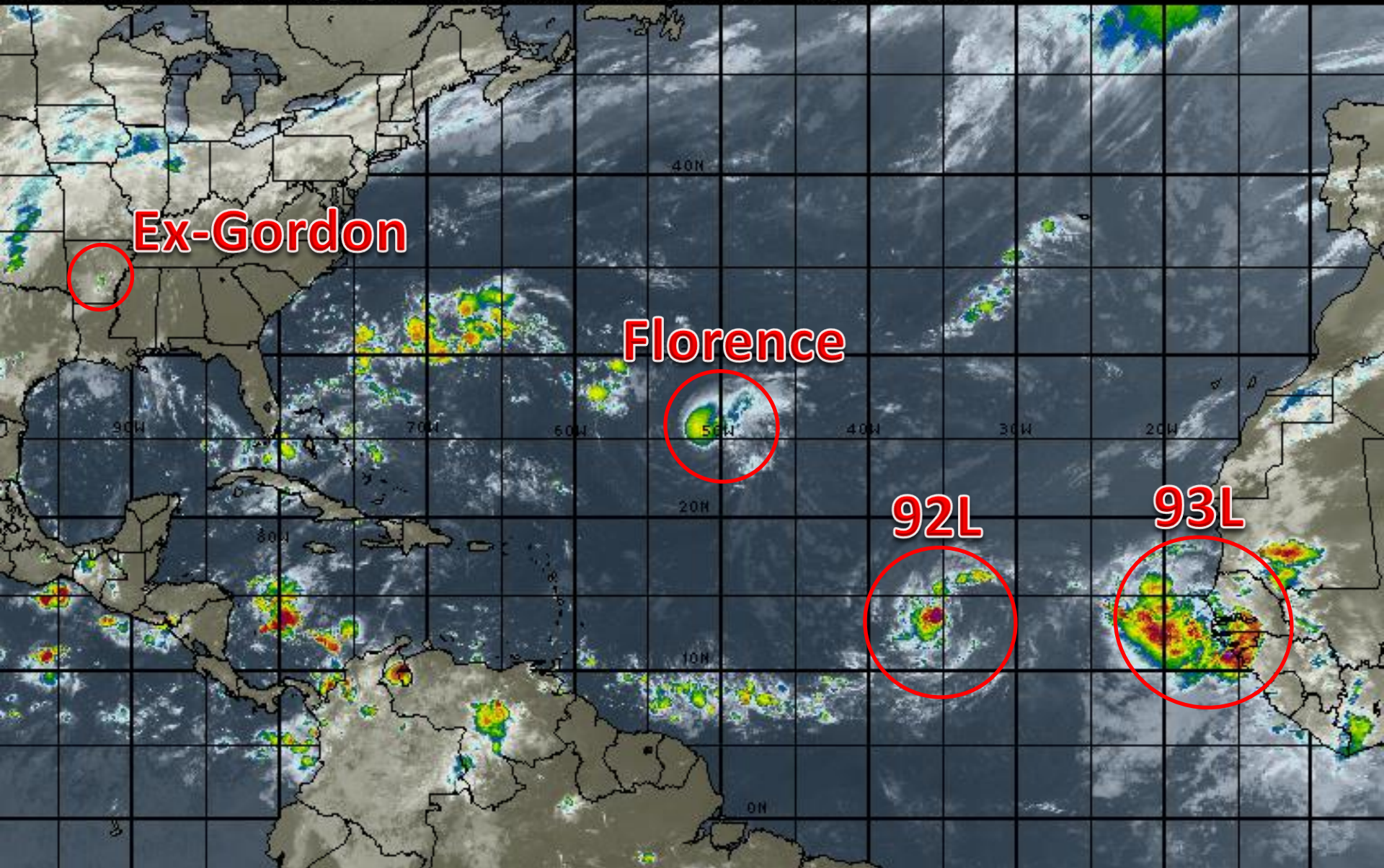
Friday, September 7, 2018

**Tropical Depression Gordon, Tropical Storm
Florence, Potential Tropical Cyclone #8 (90%),
Invest 92L (90%)**

This update is intended for government and emergency response officials, and is provided for informational and situational awareness purposes only. Forecast conditions are subject to change based on a variety of environmental factors. For additional information, or for any life safety concerns with an active weather event please contact your County Emergency Management or Public Safety Office, local National Weather Service forecast office or visit the National Hurricane Center website at www.nhc.noaa.gov.

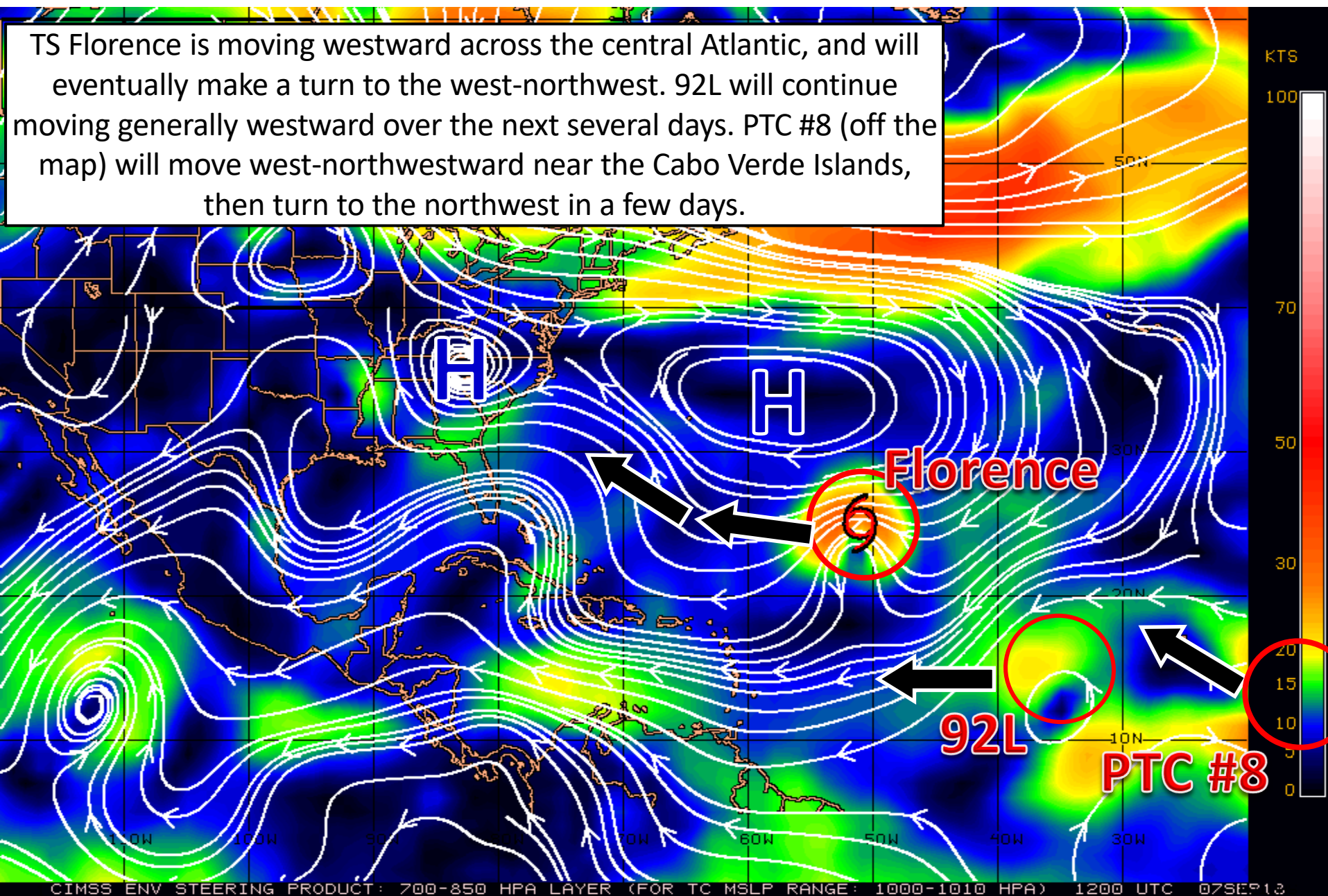
Atlantic Basin Satellite Image

12:00 07-SEP-2018 GMT Copyright © 1998-2018 MSI Corporation <http://www.wsi.com>



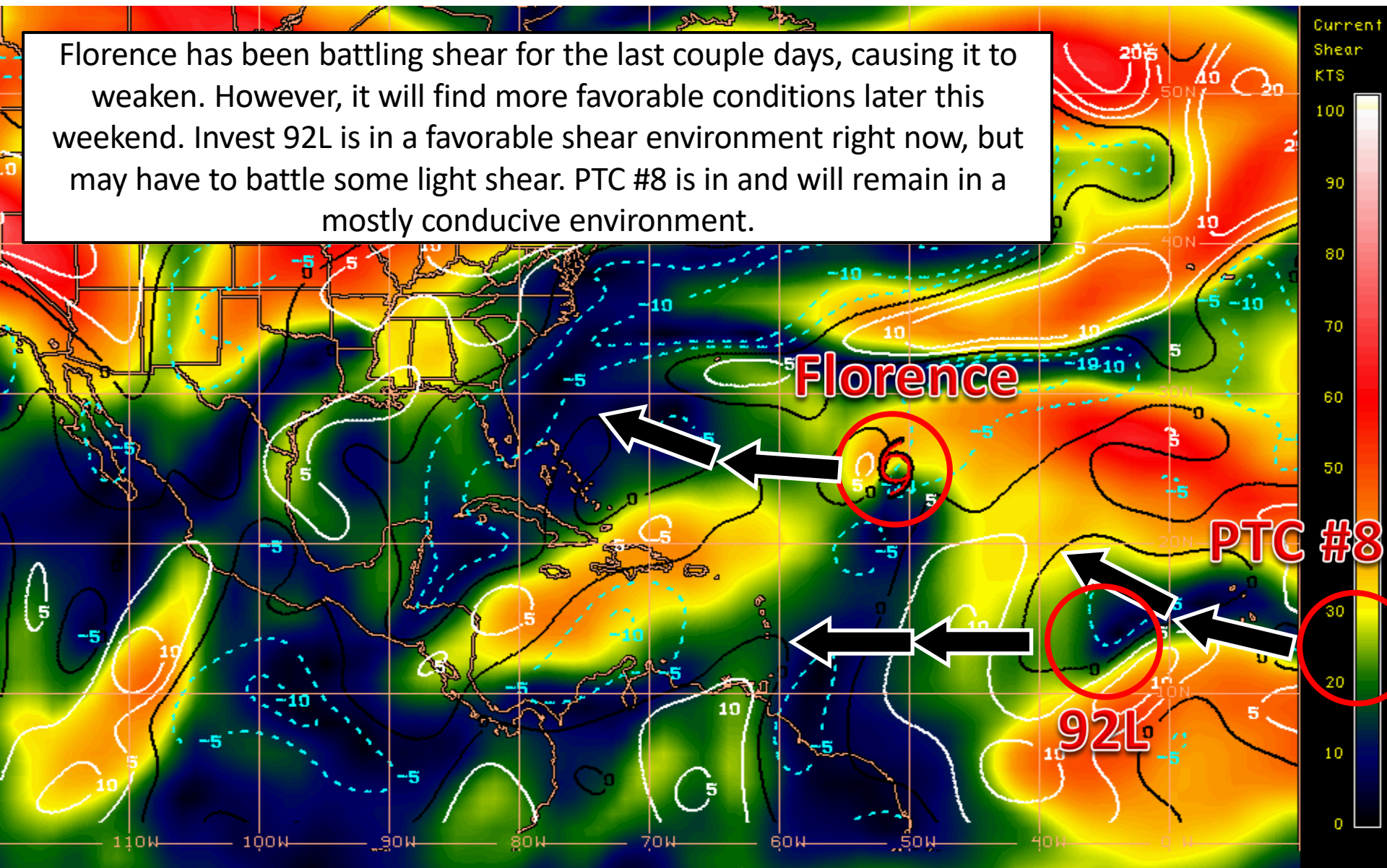
Steering Currents

TS Florence is moving westward across the central Atlantic, and will eventually make a turn to the west-northwest. 92L will continue moving generally westward over the next several days. PTC #8 (off the map) will move west-northwestward near the Cabo Verde Islands, then turn to the northwest in a few days.



Wind Shear (shaded) and Wind Shear Tendencies (contoured)

Florence has been battling shear for the last couple days, causing it to weaken. However, it will find more favorable conditions later this weekend. Invest 92L is in a favorable shear environment right now, but may have to battle some light shear. PTC #8 is in and will remain in a mostly conducive environment.



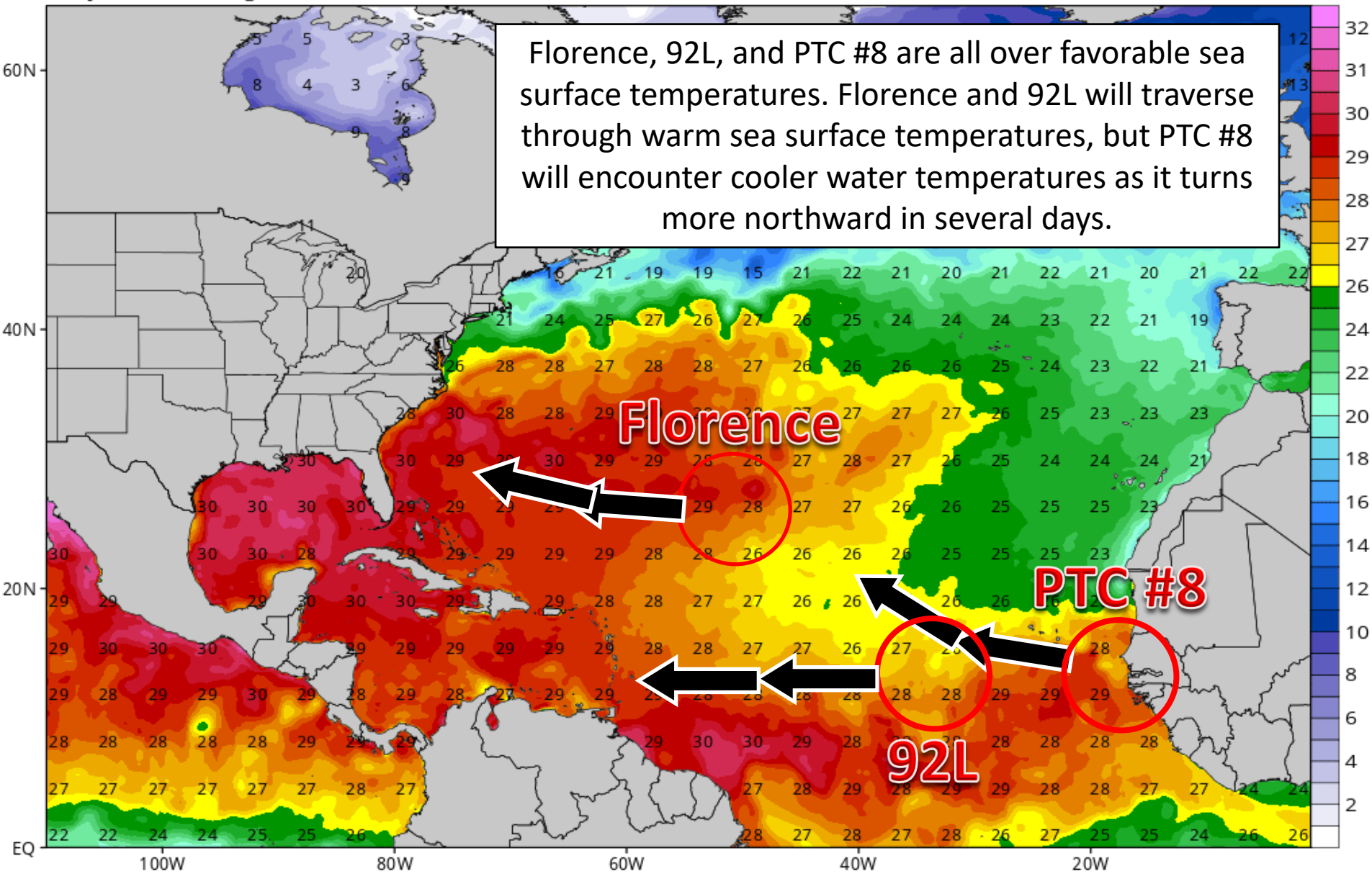
Shear Tendency (KTS) Over Past 24 Hours: Increasing — Decreasing ----

Water Temperatures

CDAS Sea Surface Temperature (°C)

Analysis Time: 06z Aug 30 2018

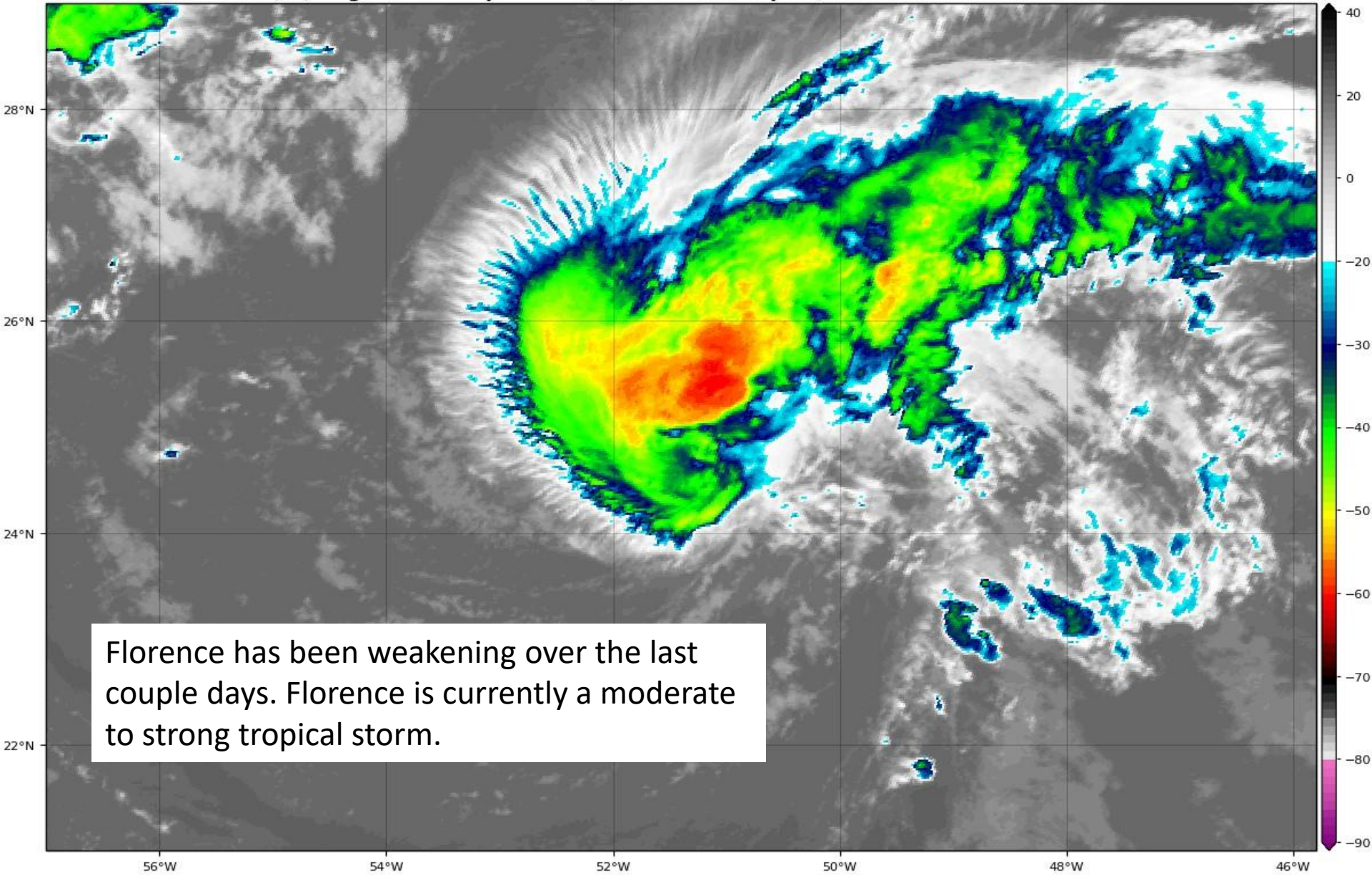
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Hurricane Florence Satellite Image

GOES-16 Channel 13 (IR) Brightness Temperature (°C) at 13:50Z Sep 07, 2018

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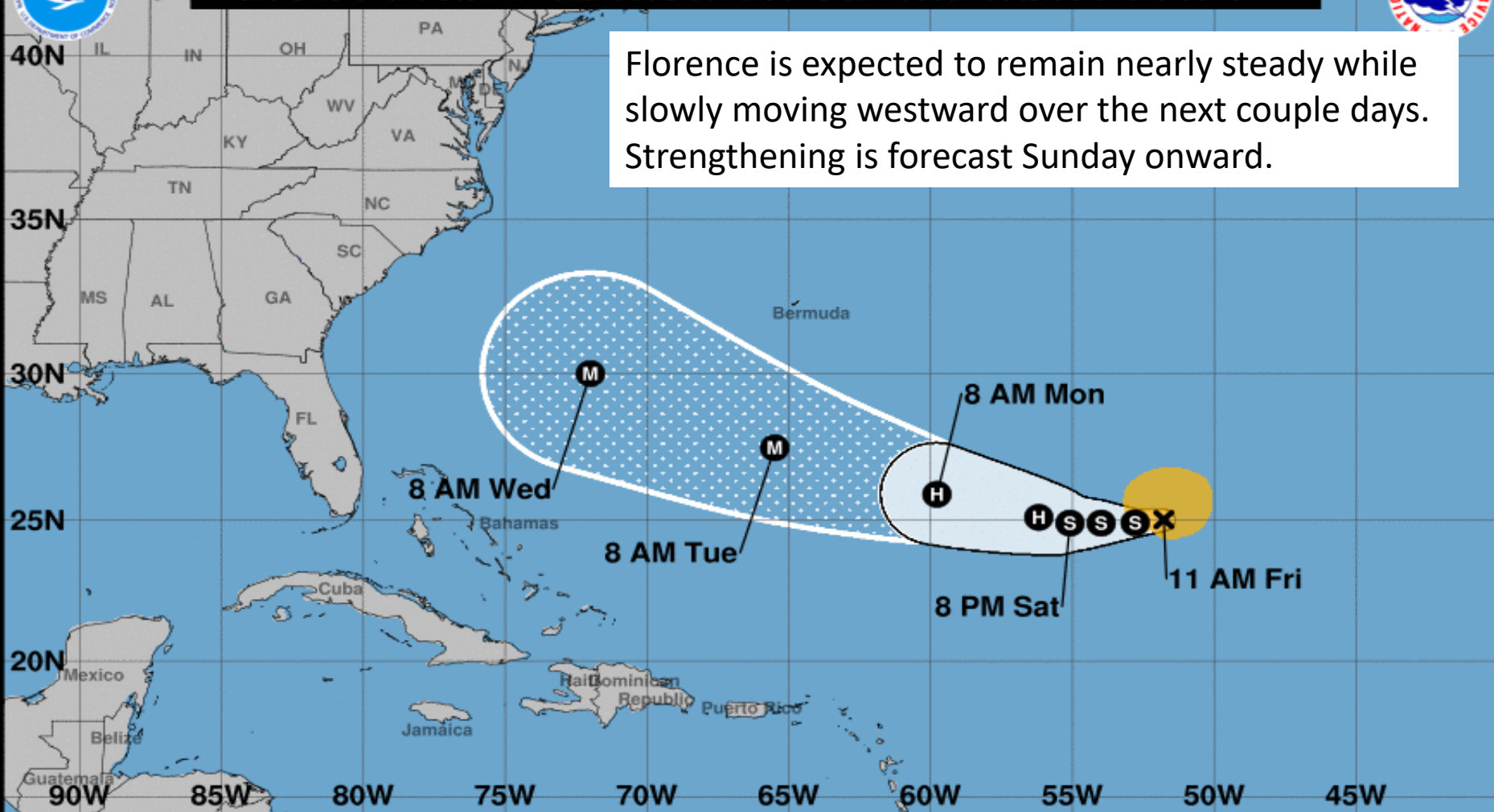


Florence has been weakening over the last couple days. Florence is currently a moderate to strong tropical storm.



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.

Florence is expected to remain nearly steady while slowly moving westward over the next couple days. Strengthening is forecast Sunday onward.



Tropical Storm Florence

Friday September 07, 2018

11 AM AST Advisory 33

NWS National Hurricane Center

Current information: X

Center location 25.0 N 51.8 W

Maximum sustained wind 65 mph

Movement W at 8 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:

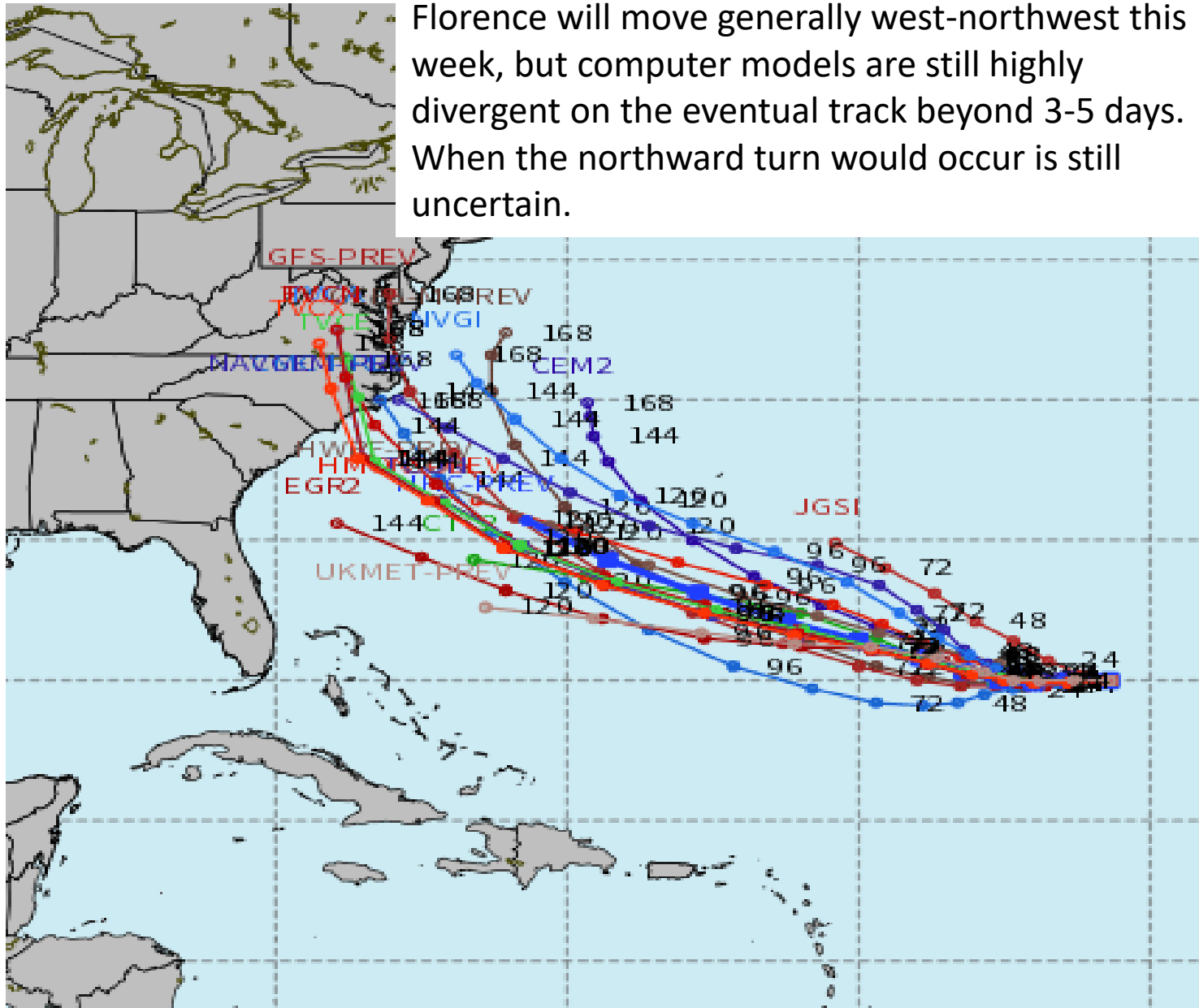
Hurricane Trop Stm

Current wind extent:

Hurricane Trop Stm

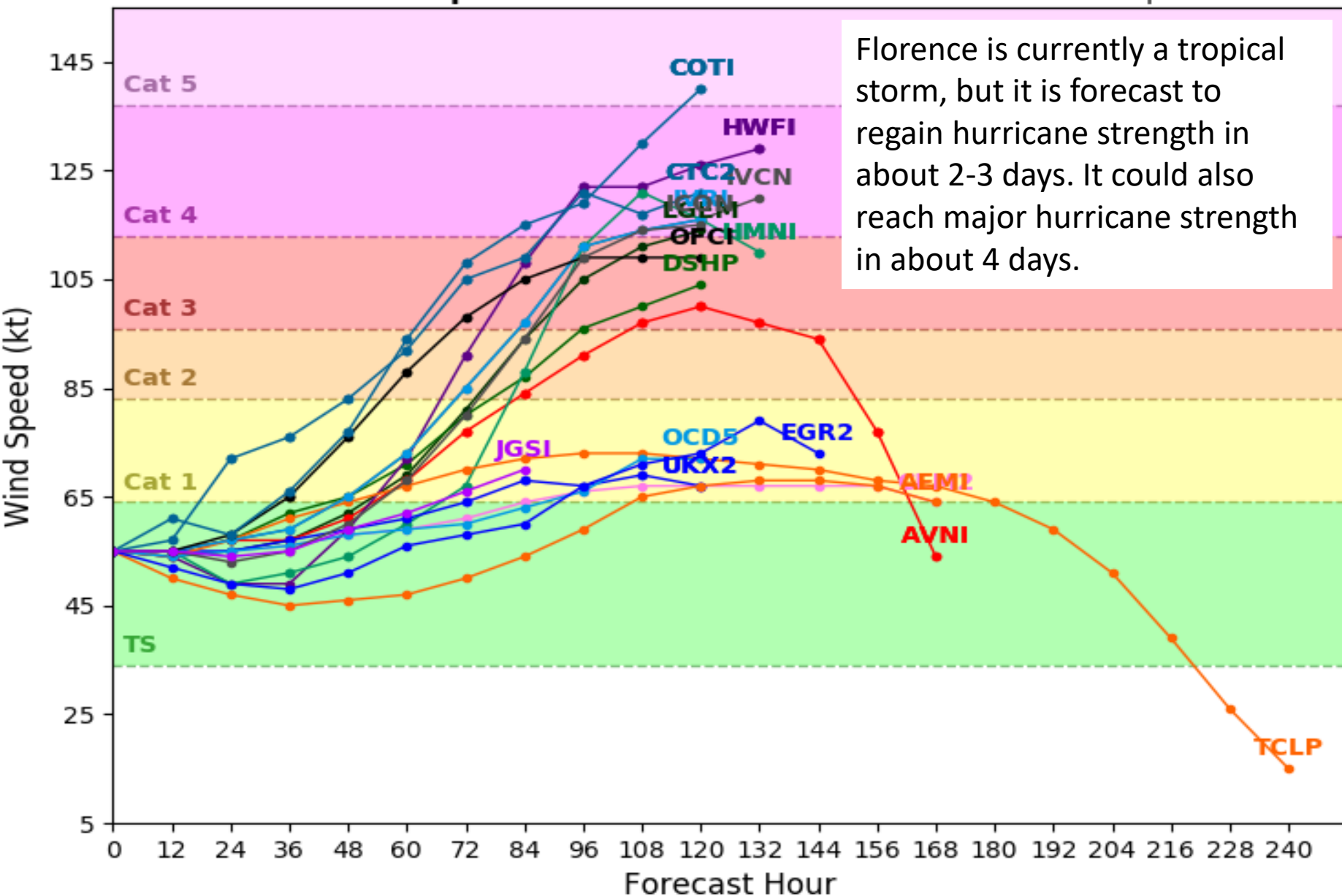
Track Models (Florence)

Florence will move generally west-northwest this week, but computer models are still highly divergent on the eventual track beyond 3-5 days. When the northward turn would occur is still uncertain.

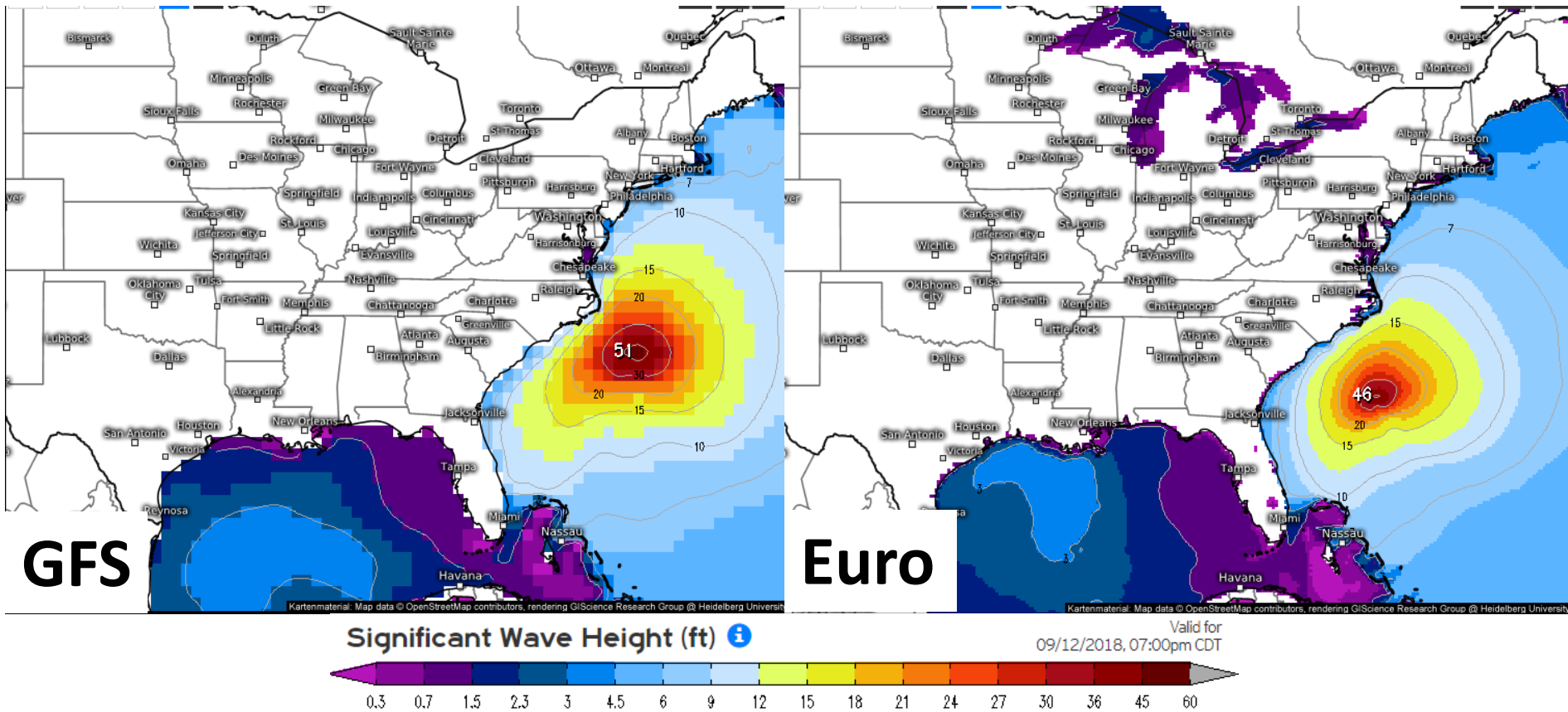


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Model Wave Heights (Florence)



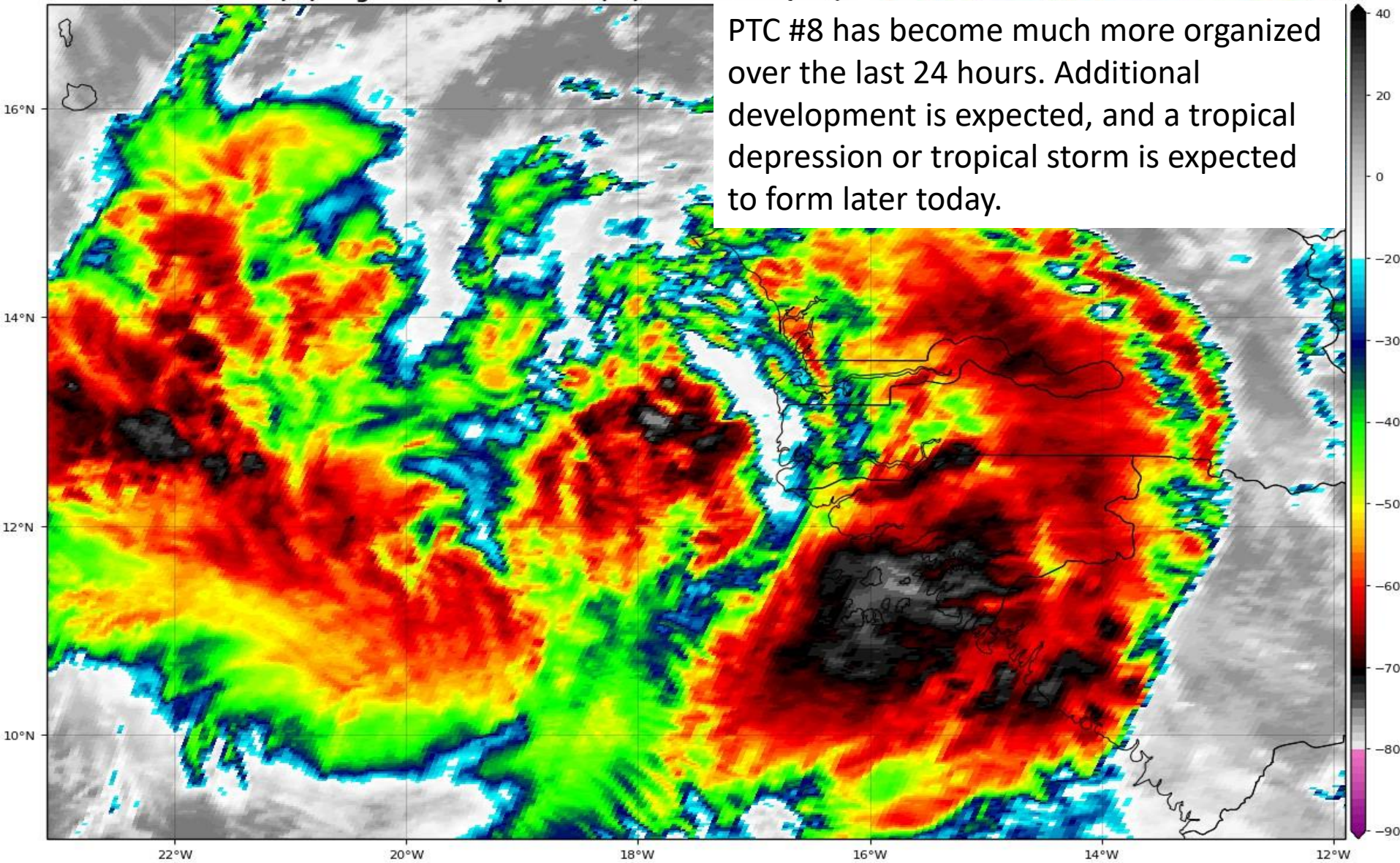
As Florence nears the East Coast next week, wave heights will increase along the East Coast of Florida. This could result in a high risk of rip currents, minor beach erosion, and some coastal flooding issues.

Potential Tropical Cyclone #8

Satellite Image

GOES-16 Channel 13 (IR) Brightness Temperature (°C) at 13:50Z Sep 07, 2018

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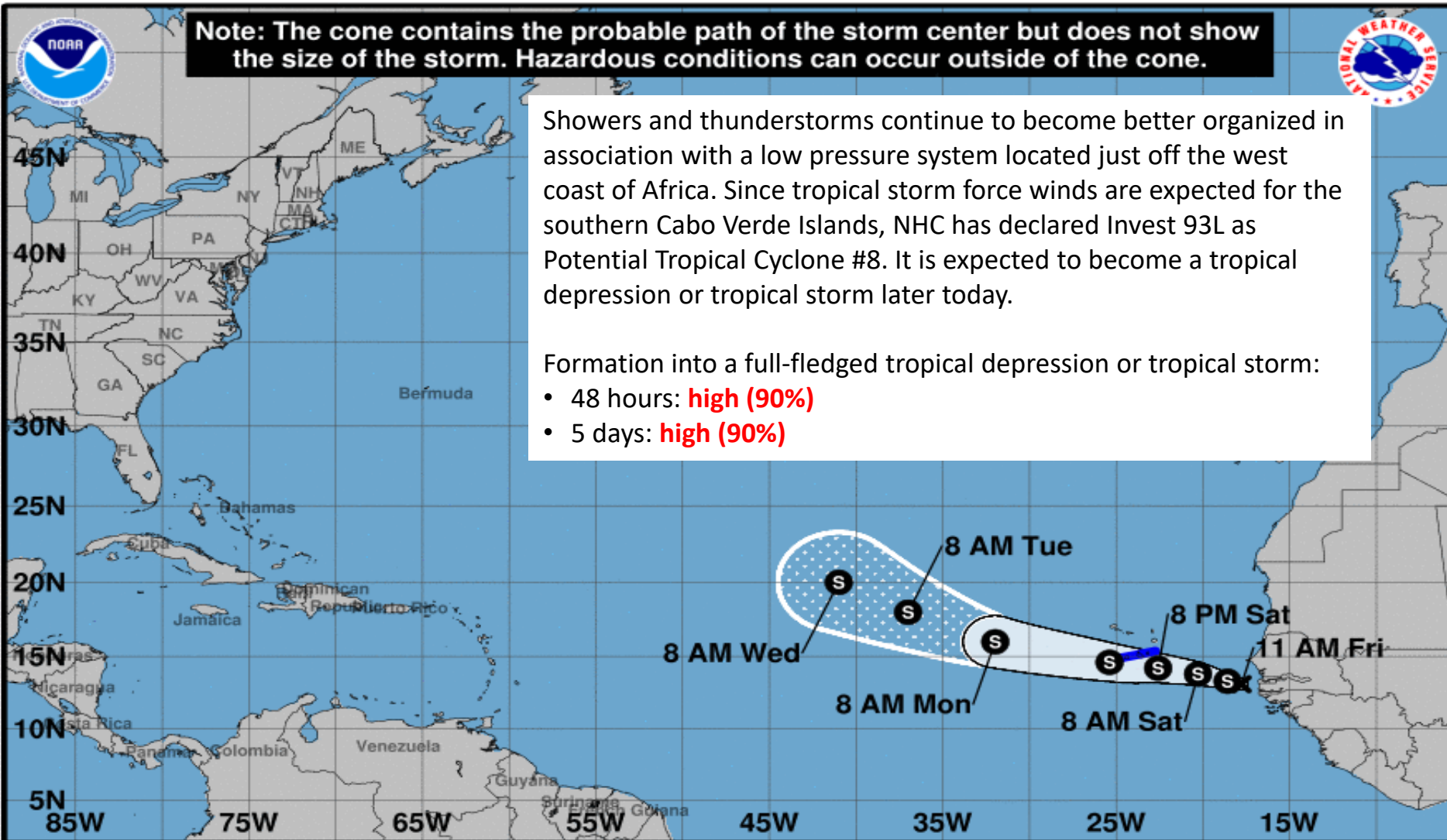


Note: The cone contains the probable path of the storm center but does not show the size of the storm. Hazardous conditions can occur outside of the cone.

Showers and thunderstorms continue to become better organized in association with a low pressure system located just off the west coast of Africa. Since tropical storm force winds are expected for the southern Cabo Verde Islands, NHC has declared Invest 93L as Potential Tropical Cyclone #8. It is expected to become a tropical depression or tropical storm later today.

Formation into a full-fledged tropical depression or tropical storm:

- 48 hours: **high (90%)**
- 5 days: **high (90%)**



Potential Tropical Cyclone Eight
Friday September 07, 2018
11 AM AST Advisory 1
NWS National Hurricane Center

Current information: x
Center location 13.1 N 17.8 W
Maximum sustained wind 35 mph
Movement W at 10 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:

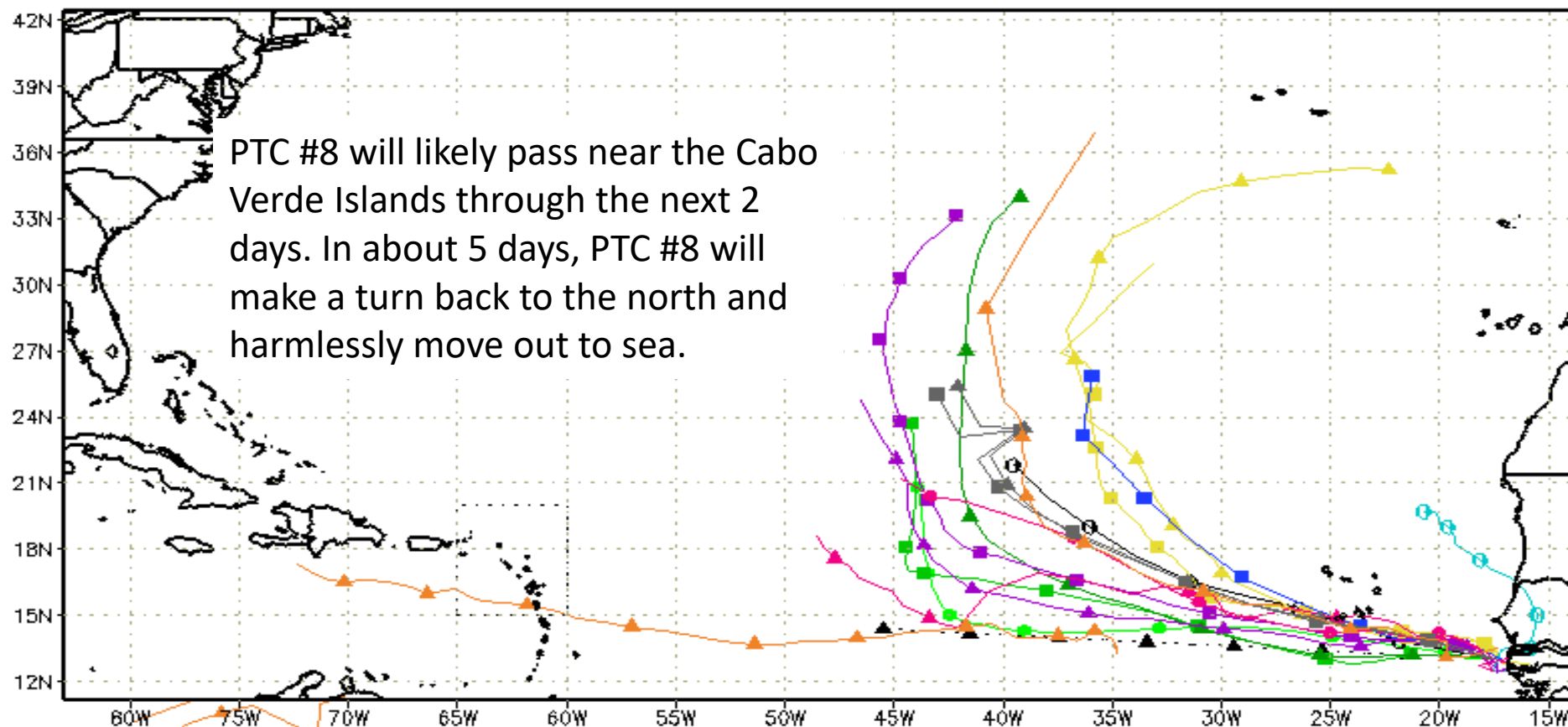
Hurricane Trop Stm

Current wind extent:

Hurricane Trop Stm

Track Models (PTC #8)

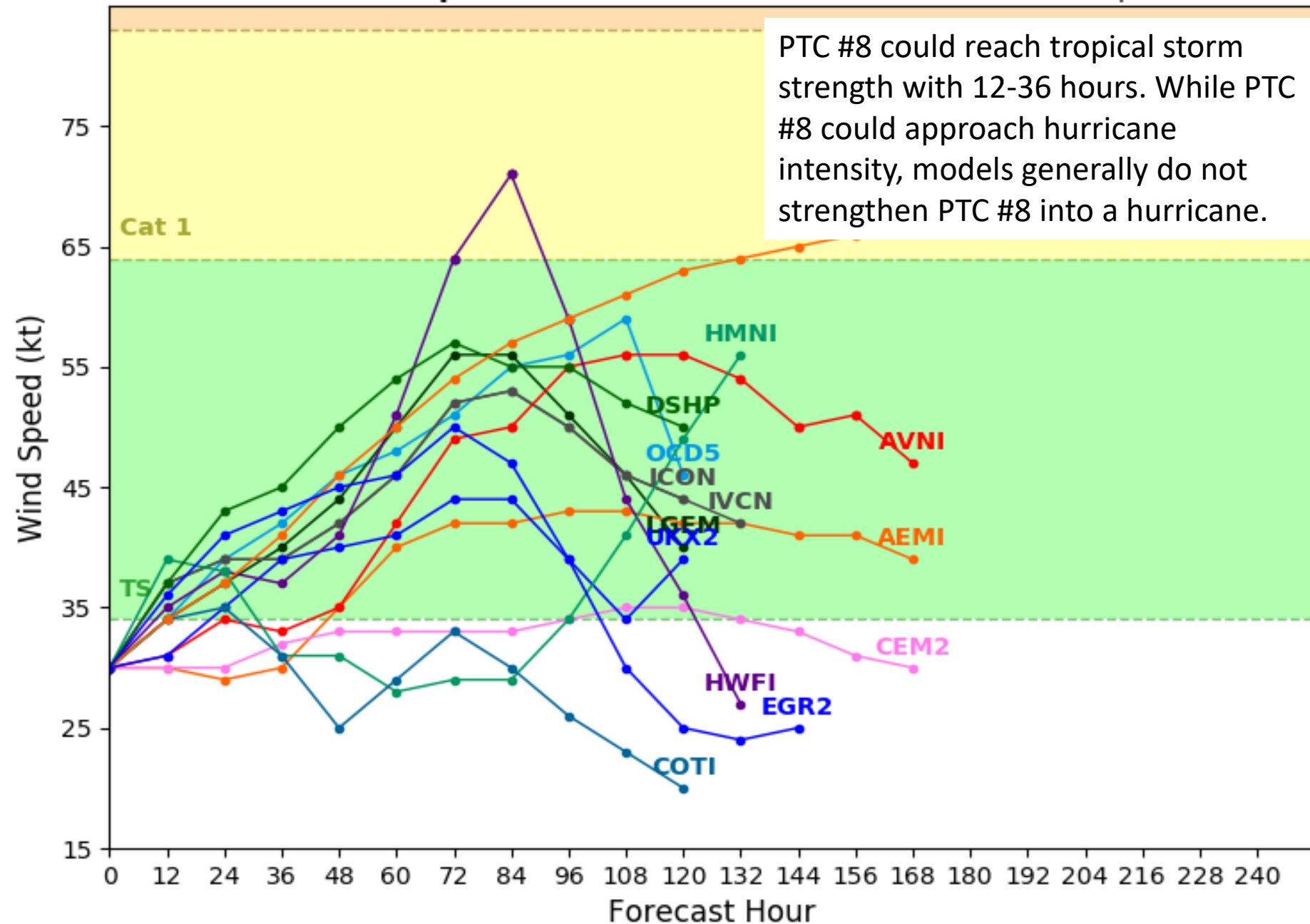
--▲-- XTRP 07/1200Z	—●— CLP5 07/1200Z	—▲— HMON 07/0600Z	—▲— AVNO 07/0600Z	—▲— ECMF 07/0000Z
—■— TVCN 07/1200Z	—▲— TABD 07/1200Z	—●— HWRF 07/0600Z	—■— AEMN 07/0600Z	—■— EEMN 07/0000Z
—▲— TVCX 07/1200Z	—■— TABM 07/1200Z	—■— UKM 07/0000Z	—●— APxx 07/0600Z	—●— EExx 07/0000Z
—●— NHC Not Avail	—●— TABS 07/1200Z	—●— COTC 07/0600Z	—▲— CMC 07/0000Z	—■— GEMN 07/0000Z



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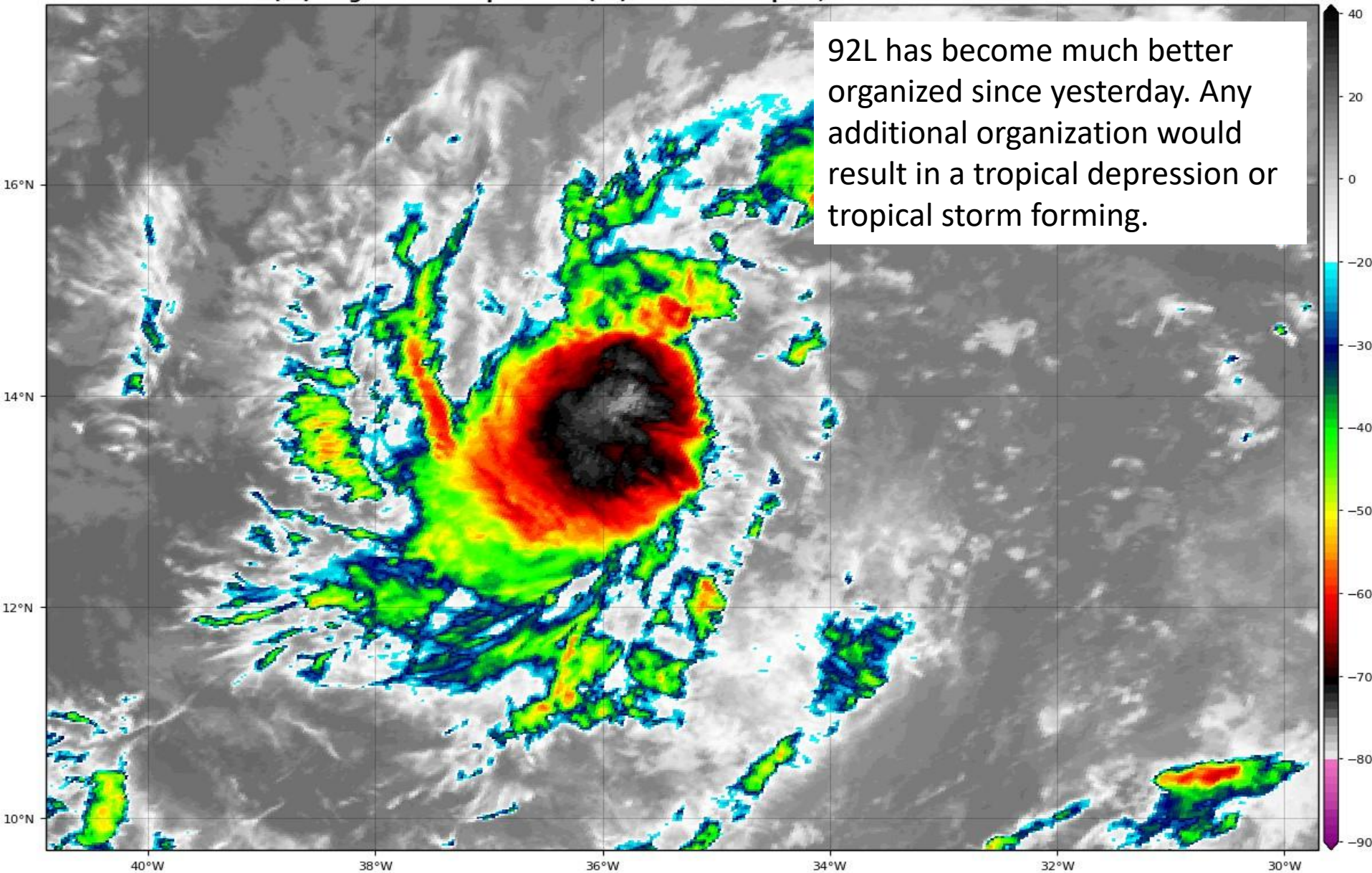
PTC #8 could reach tropical storm strength with 12-36 hours. While PTC #8 could approach hurricane intensity, models generally do not strengthen PTC #8 into a hurricane.



Invest 92L Satellite Image

GOES-16 Channel 13 (IR) Brightness Temperature (°C) at 13:50Z Sep 07, 2018

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Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



www.hurricanes.gov

Disturbance 1

Satellite images indicate that the circulation of a low pressure system located about 650 miles west of the Cabo Verde Islands is gradually becoming better defined. In addition, the associated showers and thunderstorms remain fairly concentrated near the center. This system is expected to become a tropical depression later today or tonight while it moves slowly westward across the tropical Atlantic Ocean.

- Formation chance through 48 hours: **high (90%)**
- Formation chance through 5 days: **high (90%)**

8:00 am EDT
Fri Sep 7 2018

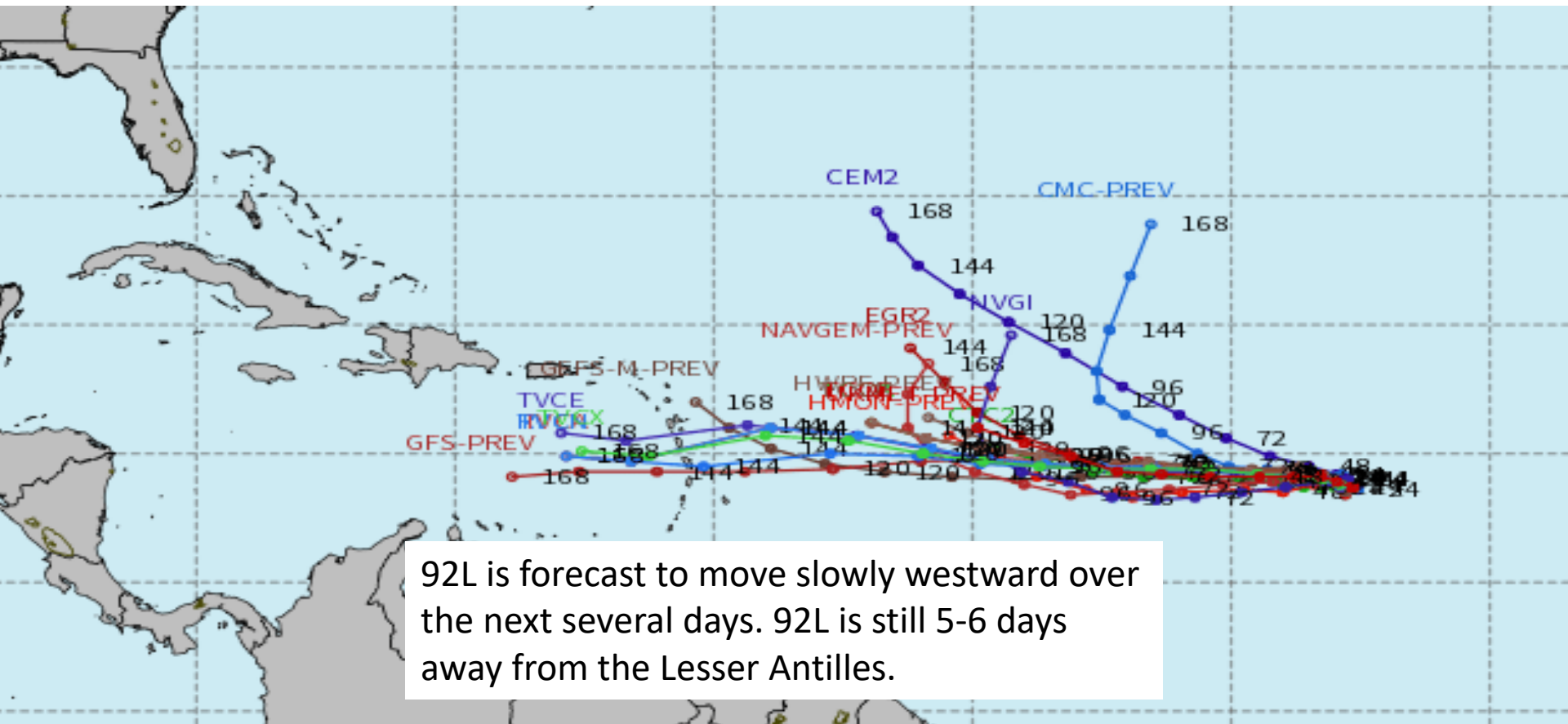
100W 90W 80W 70W 60W 50W 40W 30W 20W

Current Disturbances and Five-Day Cyclone Formation Chance: ✕ < 40% ✖ 40-60% ✗ > 60%

Tropical or Sub-Tropical Cyclone: ○ Depression 🌀 Storm 🌀 Hurricane

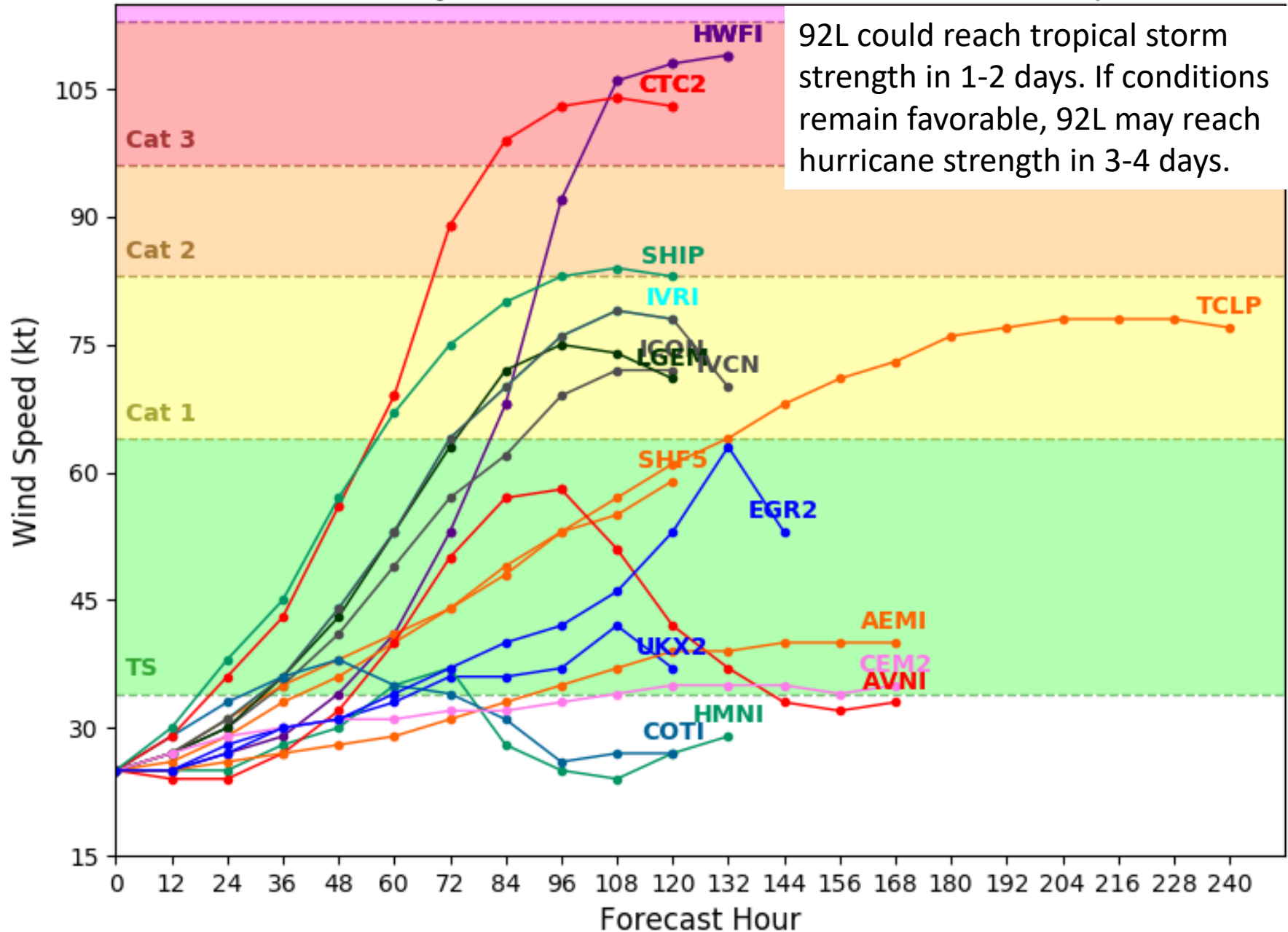
⊗ Post-Tropical Cyclone or Remnants

Track Models (92L)



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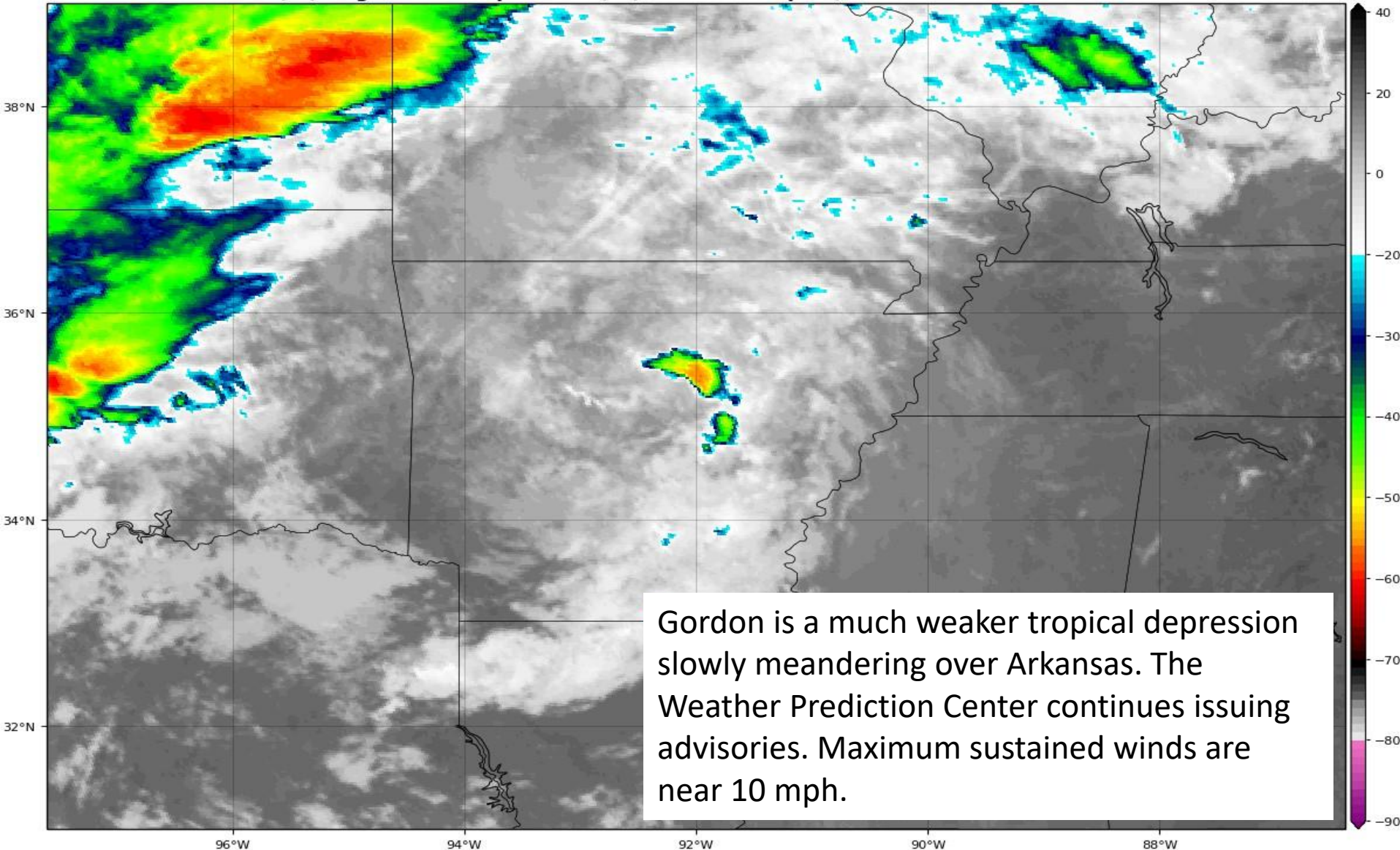
92L could reach tropical storm strength in 1-2 days. If conditions remain favorable, 92L may reach hurricane strength in 3-4 days.



TD Gordon Satellite Image

GOES-16 Channel 13 (IR) Brightness Temperature (°C) at 15:18Z Sep 07, 2018

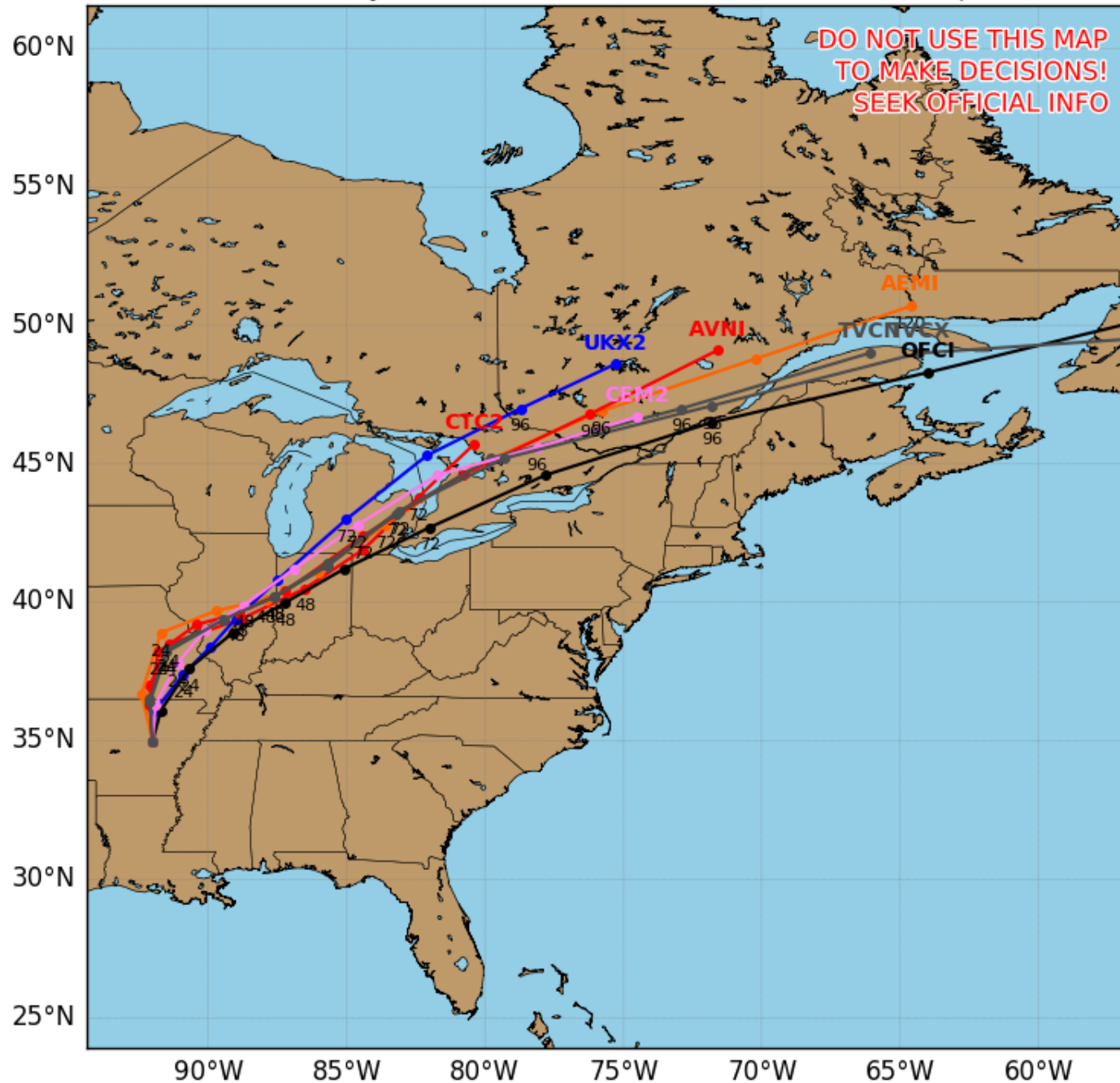
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Remnants of GORDON Model Track Guidance

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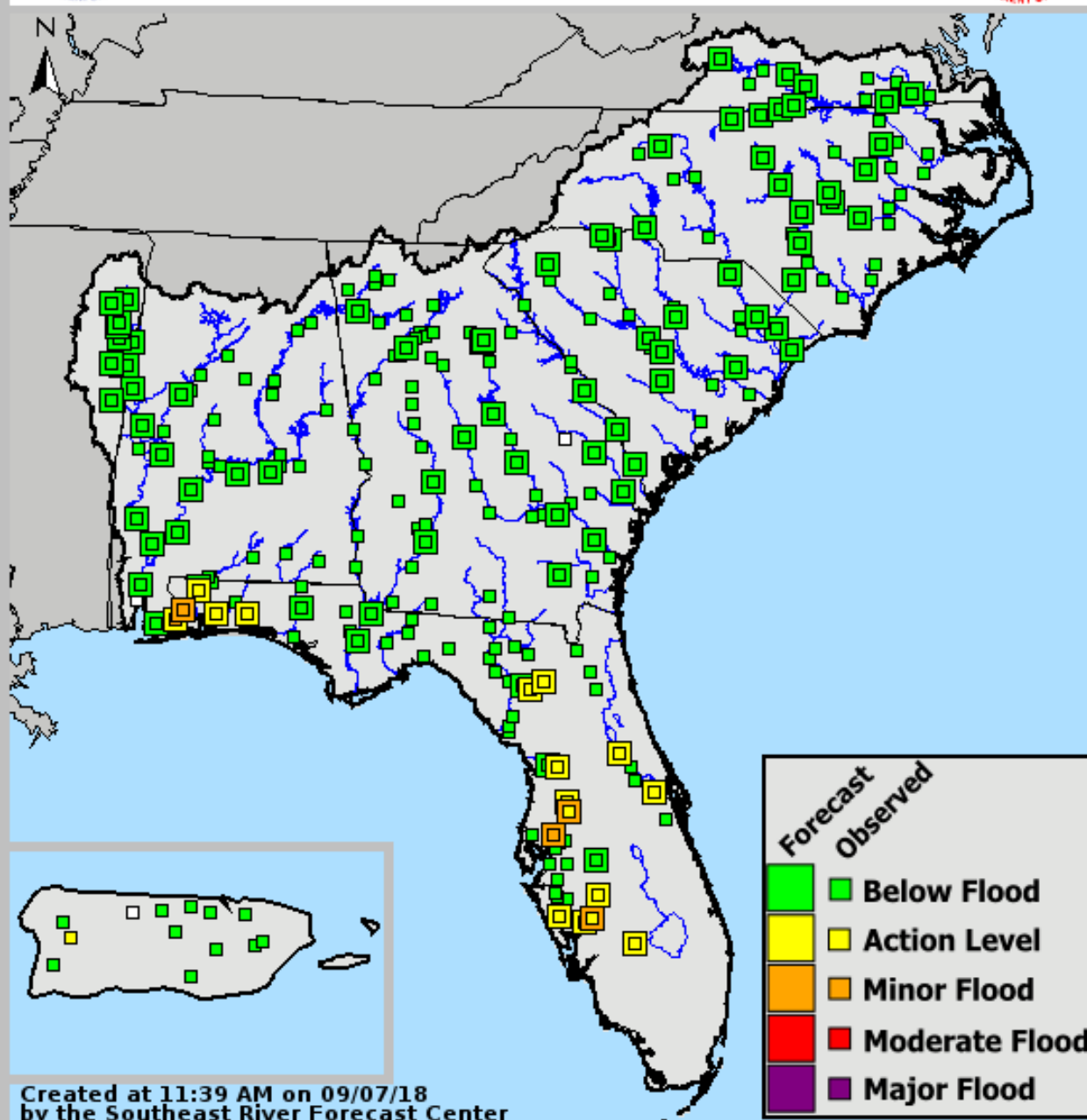


Gordon (or its remnants) will slowly move into Missouri later today before being absorbed by a front.

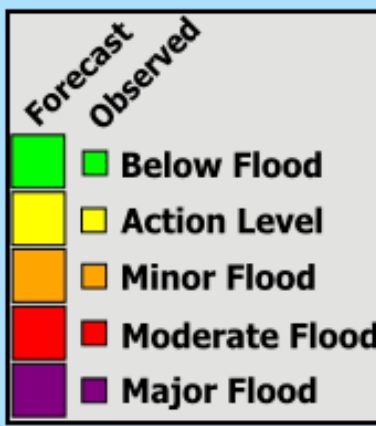


SERFC River Condition

Valid: 09/07/2018 @ 11:39 AM



Some Panhandle rivers rose as a result of Gordon's rainfall. However, the only Panhandle river that rose to minor flood stage is the Perdido River near Barrineau Park. Cypress Creek near Worthington Gardens in West Central Florida remains in minor flood.



Summary

- Tropical Depression Gordon is centered over north-central Arkansas with maximum sustained winds of 10 mph.
- Gordon will move slowly north today and then northeast over the weekend while weakening and getting absorbed by a frontal system.
- Florence weakened to a tropical storm overnight while located in the central Atlantic Ocean.
- At 11 AM EDT Friday, Tropical Storm Florence was located in the central Atlantic Ocean about 935 miles southeast of Bermuda, or approximately 1,775 miles east of Miami, Florida.
- Maximum sustained winds have decreased to near 65 mph, but re-strengthening is expected to occur over the weekend and Florence could once again be a hurricane in about 48 hours.
- Florence is moving slower, to the west near 8 mph, and this motion and speed is expected to continue for the next 2-3 days while strengthening.
- A slight turn to the west-northwest along with an increase in forward speed is forecast next week, and conditions will allow for additional intensification to major hurricane status in 4-5 days.
- Beyond 4-5 days, there is still some disagreement in the computer models on the eventual track of Florence, and will be dependent on the strength of Florence as well as forecast steering currents.
- Hurricane Hunters are scheduled to begin investigating the system on Monday, which should help model performance.
- Invest 92L is located in the eastern Atlantic Ocean about 700 hundred miles west of the Cabo Verde Islands, or about 1,900 miles east of the Leeward Islands.
- Environmental conditions are favorable for development and the system is getting better defined.
- There is a 90% (high) chance of 92L becoming a tropical depression later today. Some models predict 92L could become a tropical storm within 48 hours and a possibly hurricane within 3-5 days.
- 92L is forecast to continue moving slowly westward across the eastern and central tropical Atlantic through the next 5-7 days before possibly reaching the Windward Islands.
- Farther east, a tropical wave has just emerged from the west coast of Africa.
- This system is larger and more organized than 92L and should become a tropical storm within the next 6-12 hours.
- As a result, the National Hurricane Center has designated this system as Potential Tropical Cyclone #8.
- Potential Tropical Cyclone #8 is forecast to move west-northwestward in the eastern Atlantic for the next 3 days before turning more northwest into the open Atlantic next week.
- The next names on the 2018 storm list are Helene and Isaac. It is likely that the farthest east system (PTC #8) becomes Helene and 92L becomes Isaac in the central Atlantic.

Florida Outlook:

- All western Panhandle rivers have crested and are beginning to recede. Only the Perdido River is experiencing minor flooding and no significant impacts are anticipated.
- The risk of direct impacts associated with Florence along the U.S. East Coast next week has increased. However, there is still very large uncertainty in model forecasts of Florence's track beyond day 5, making it too soon to determine the exact location, magnitude, and timing of these impacts. Interests near and along the U.S. East Coast should monitor the progress of Florence through the weekend.
- Regardless of Florence's eventual track, large swells emanating from the storm will reach portions of the Florida East Coast late this weekend, resulting in life-threatening rip currents. Increasing impacts including large breaking waves, erosion and coastal flooding will be possible towards the middle of next week.
- It is also too early to tell if PTC #8 and 92L will have any impact on Florida.

Another briefing packet will be issued late Friday morning. For the latest information on the tropics, please visit the National Hurricane Center website at www.hurricanes.gov.



TROPICAL UPDATE

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State Meteorological Support Unit

Florida Division of Emergency Management

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