

**IMPACTS FOR D7 (through next 5 days)**

**Winds – Medium**

**Storm Surge – Low**

**Rainfall/Flash Flooding – Low**

**Tornadoes – None**

**Waves - Medium**

# TROPICAL STORM LEE BRIEFING



8:00 AM EDT

Wednesday, September 6, 2023

Prepared by:

**Nelsie A. Ramos**

*Tropical Analysis and Forecast Branch  
NWS National Hurricane Center*

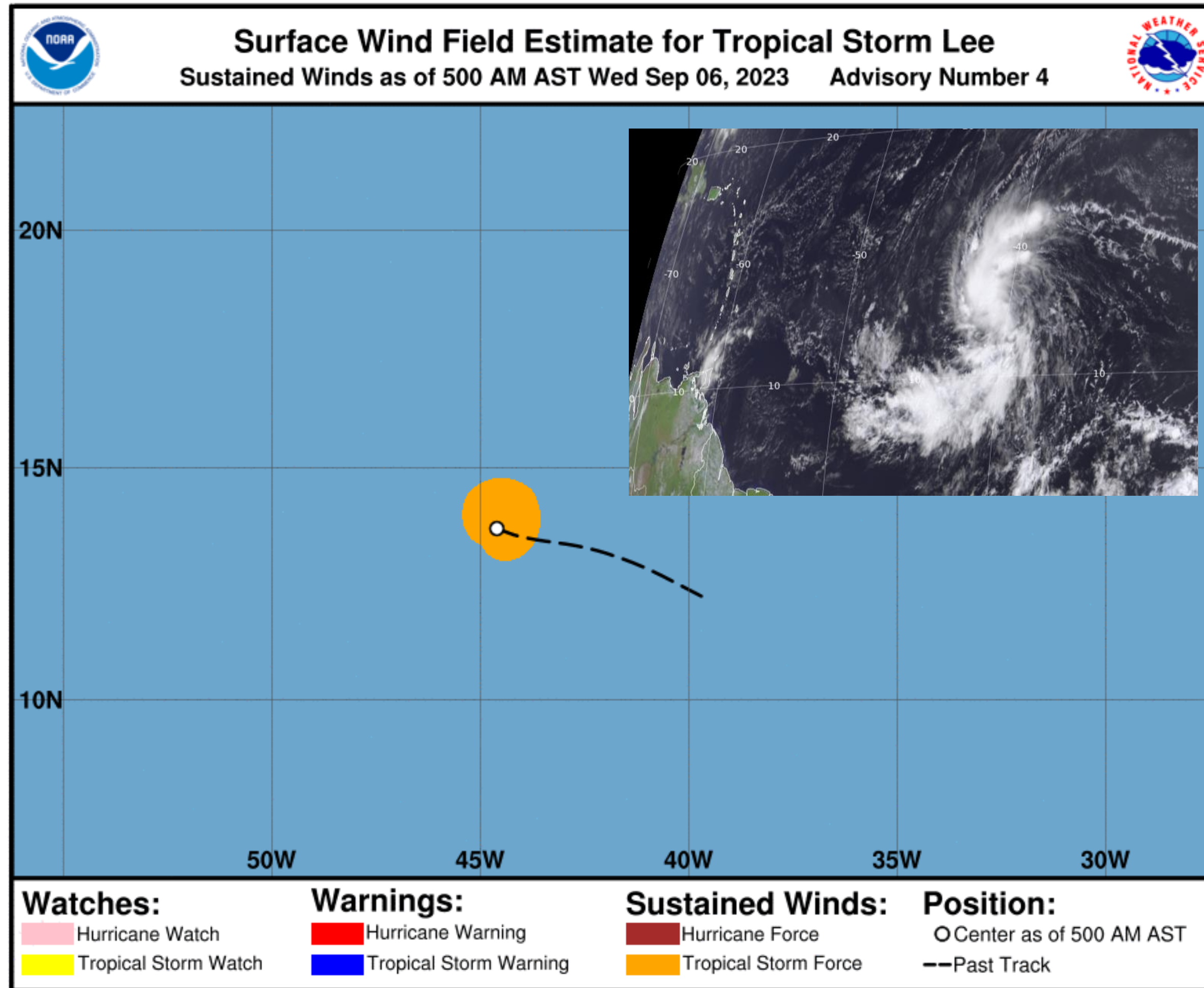


# Situation Overview

## Tropical Storm Lee



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**...LEE APPROACHING HURRICANE STRENGTH...  
...EXPECTED TO RAPIDLY INTENSIFY INTO AN EXTREMELY DANGEROUS HURRICANE BY THE WEEKEND...**

**SUMMARY OF 500 AM AST...0900 UTC...Information**

**LOCATION...13.7N 44.6W  
ABOUT 1099 NMI ESE OF THE NORTHERN LEEWARD ISLANDS**

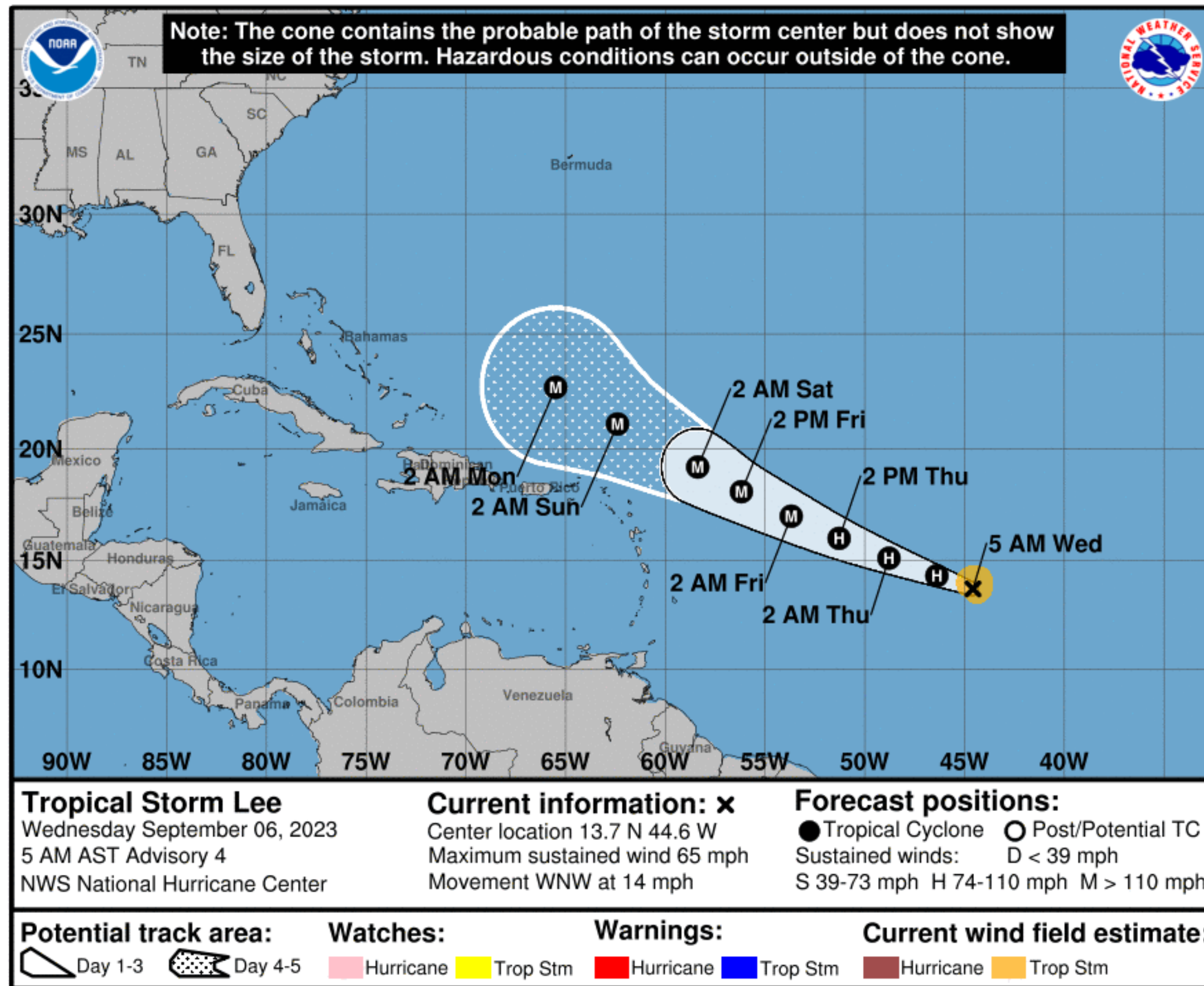
**MAXIMUM SUSTAINED WINDS...55 KT  
PRESENT MOVEMENT...WNW AT 12 KT  
12 FT SEAS 60NE 30SE 0SW 60NW**

# Forecast Information

## Tropical Storm Lee



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- Continued steady to rapid strengthening is forecast, and Lee is expected to become a hurricane later today and a major hurricane in a couple of days
- Lee is moving toward the west-northwest and this motion is expected to continue through the weekend
- Lee forecast to pass to the north of the northern Leeward Islands this weekend as a major hurricane
- Current center forecast positions through the next 5 days (if applicable) illustrated by dots
- White swath of potential track error added to each side of the forecast track through day 3
- Hatched swath of potential track error added to each side of the forecast track days 4-5

\*\* Swaths are calculated using average track errors and actual track may be well inside, or possibly outside the potential track areas indicated.

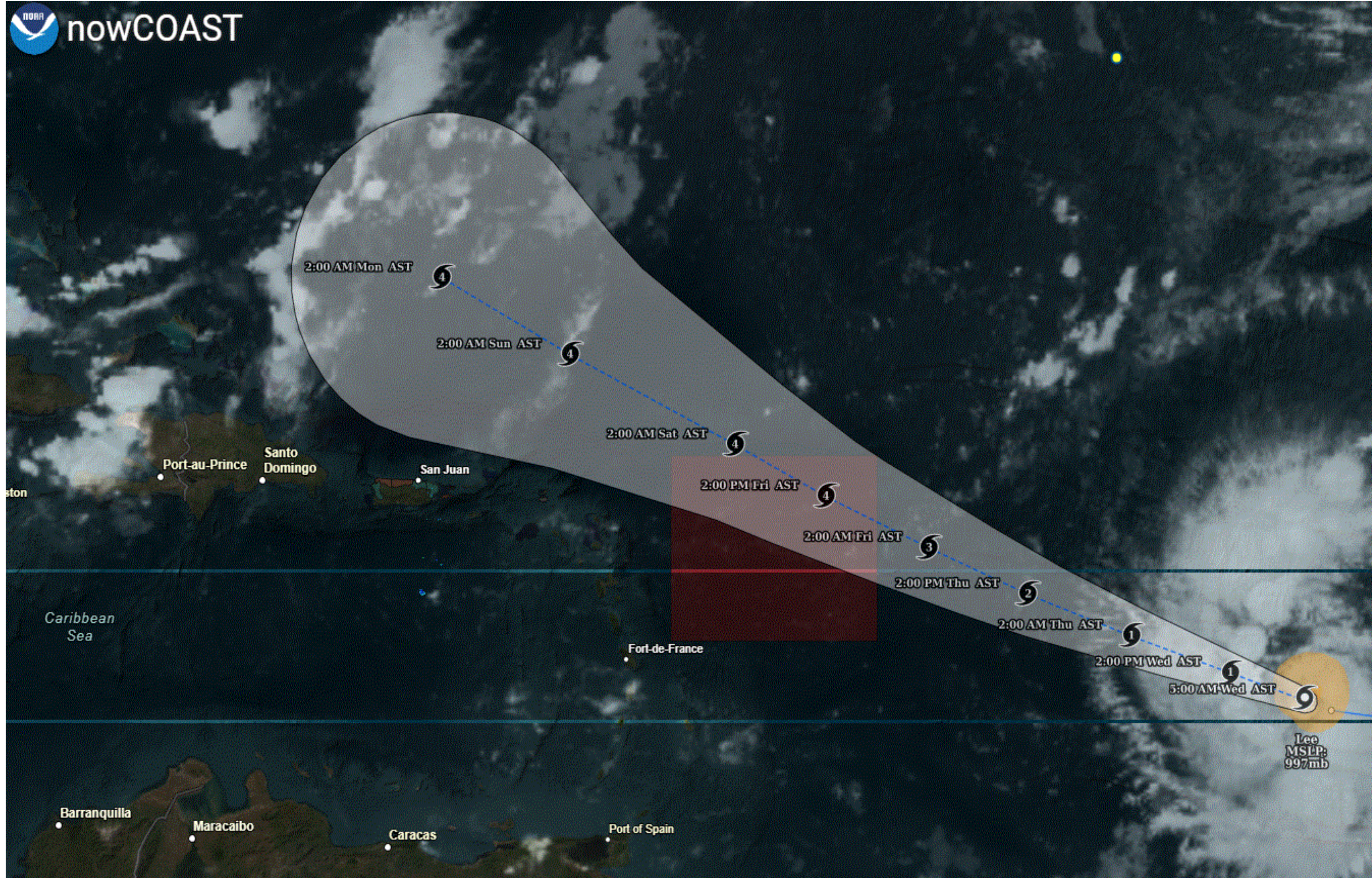
**NOTE:** Do not focus on the exact track. Impacts can occur well outside the area enclosed by the cone.

# Hazards Map

Tropical Storm Lee



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NWS National Hurricane Center



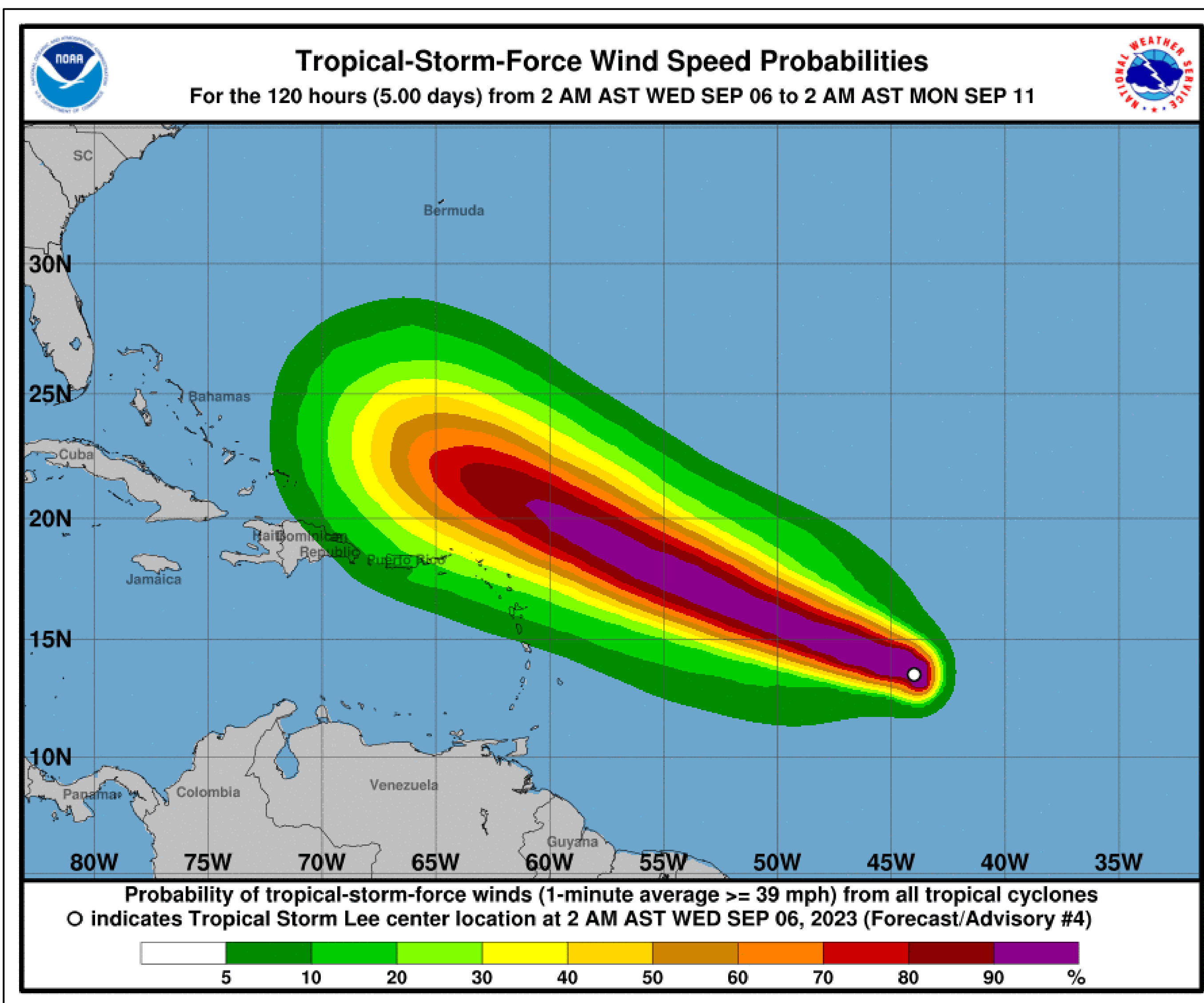
- Hurricane Warning
- Tropical Storm Warning
- Hurricane Watch
- Tropical Storm Watch
- Coastal Flood Advisory
- Small Craft Advisory
- Gale Warning
- Gale Watch

# T.S. Wind Speed Probabilities

Tropical Storm Lee



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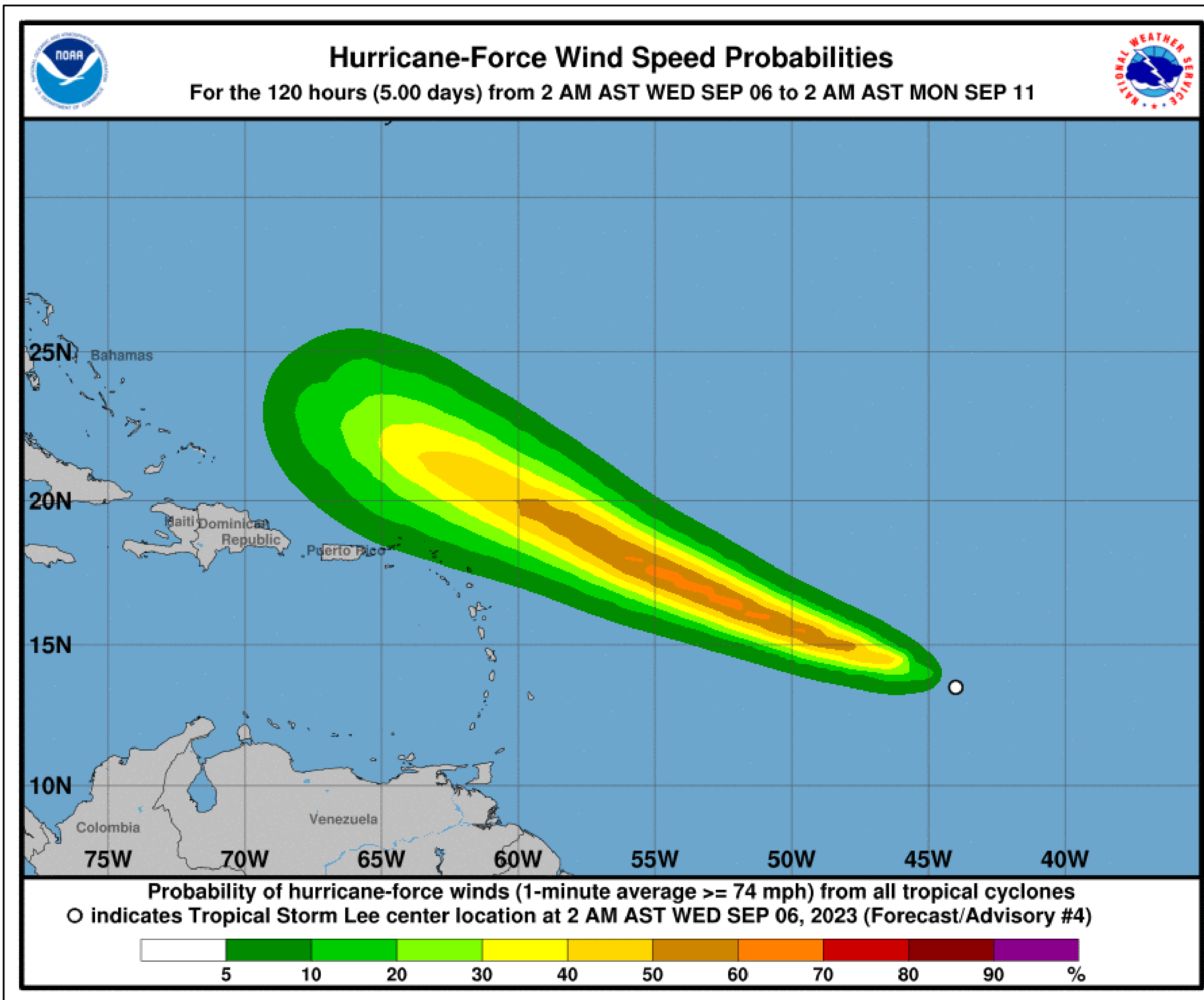
- Ponce, PR – 15%
  - Aguadilla, PR – 15%
  - San Juan, PR – 15%
  - Vieques, PR – 20%
  - St Thomas – 25%
  - St John – 25%
  - St Croix – 20%
  - St Maarten – 30%
- Probabilities of sustained tropical storm force winds (34 kt to 63 kt) over the next 5 days, based off this cyclone's wind radii and track.
  - Clear or dark green are the lowest chances of 0-30%.
  - Yellow to orange is 31-70%
  - Red through purple are the highest probabilities of 71%-100%
  - See the color bar below the image for more details.

# Hurricane Wind Speed Probabilities



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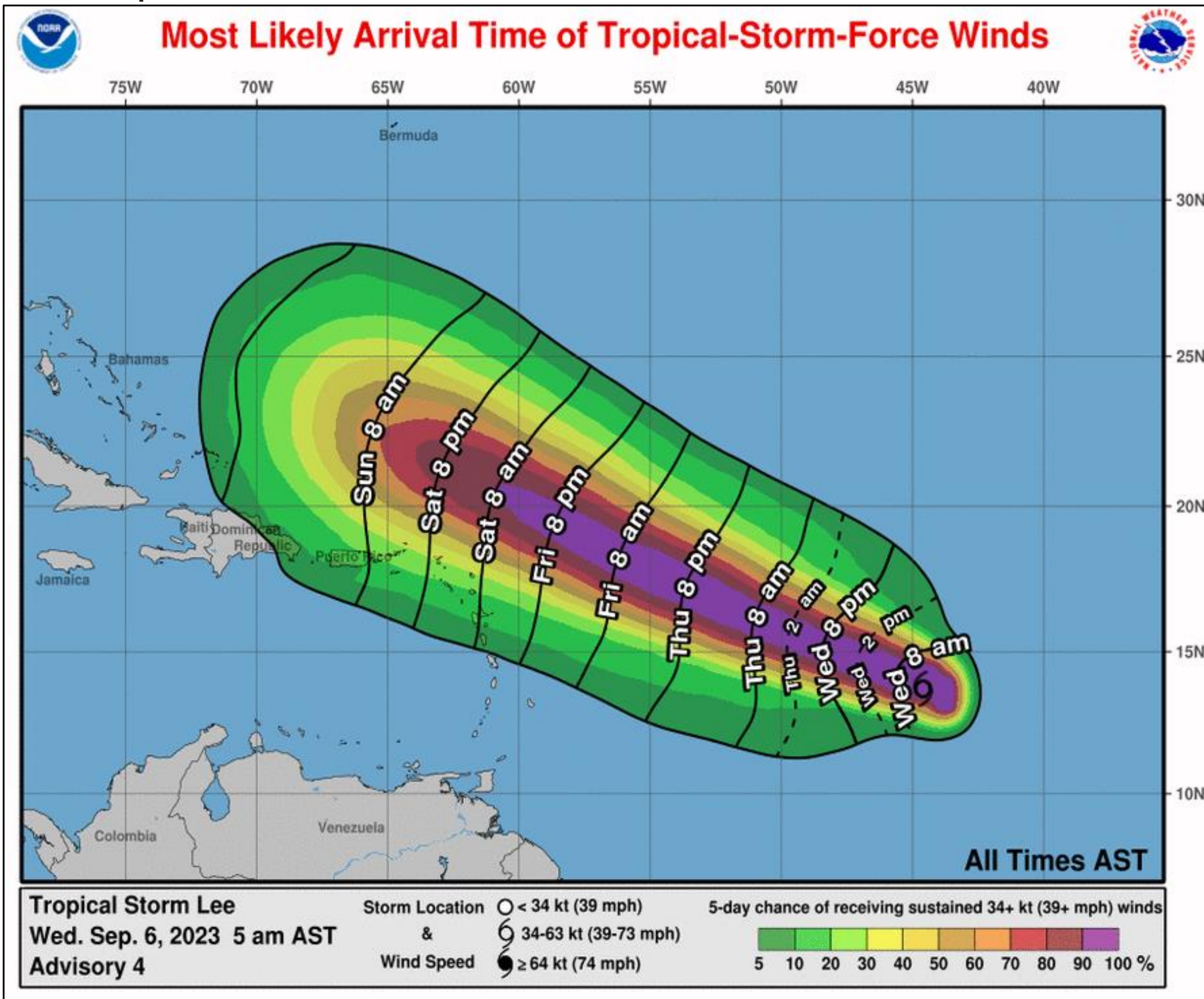
Tropical Storm Lee



- San Juan – 5%
  - Vieques – 5%
  - St Thomas – 5%
  - St John – 5%
  - St Croix – 5%
- Probabilities of sustained hurricane force winds (64 kt +) over the next 5 days, based off this cyclone's wind radii and track.
  - Clear or dark green are the lowest chances of 0-30%.
  - Yellow to orange is 31-70%
  - Red through purple are the highest probabilities of 71%-100%
  - See the color bar below the image for more details.



## Tropical Storm Lee



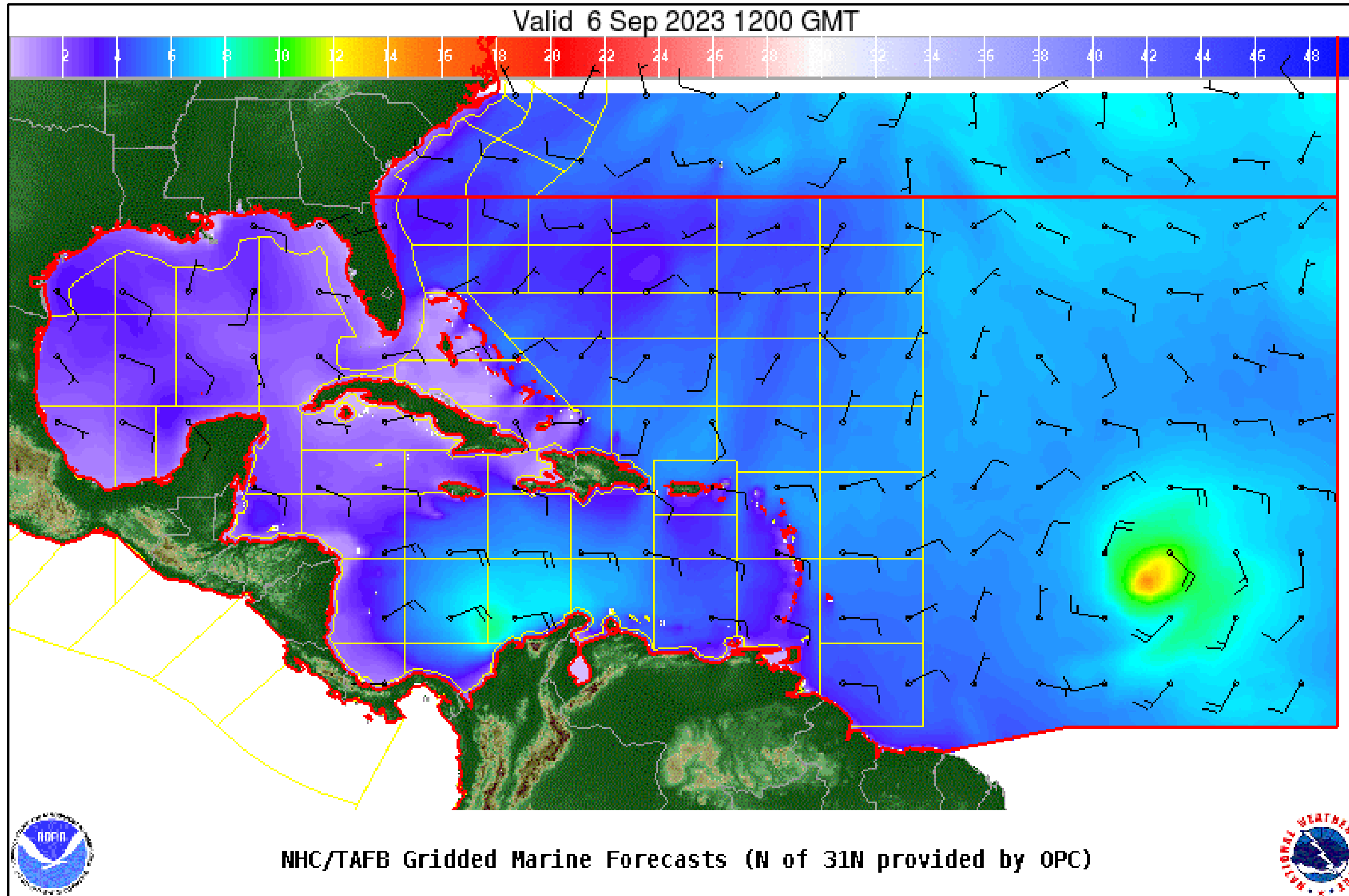
- Leeward Islands – Sat Morning
- USVI – Sat Night
- Puerto Rico – Sun Morning
  
- The most likely time of arrival of Tropical Storm Force Winds (34kt to 63 kt) for this cyclone based off the current track and wind radii.
  
- Clear or dark green are the lowest chances of 0-30%.
  
- Yellow to orange is 31-70%
  
- Red through purple are the highest probabilities of 71%-100%
  
- See the color bar below the image for more details.

# Wind And Waves

## Tropical Storm Lee



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### Current Conditions

8 AM EDT Wed, Sep 6

Peak Winds: 55 KT

Peak Seas: 14 FT

- Wave heights are in feet



Significant Wave Height (ft)

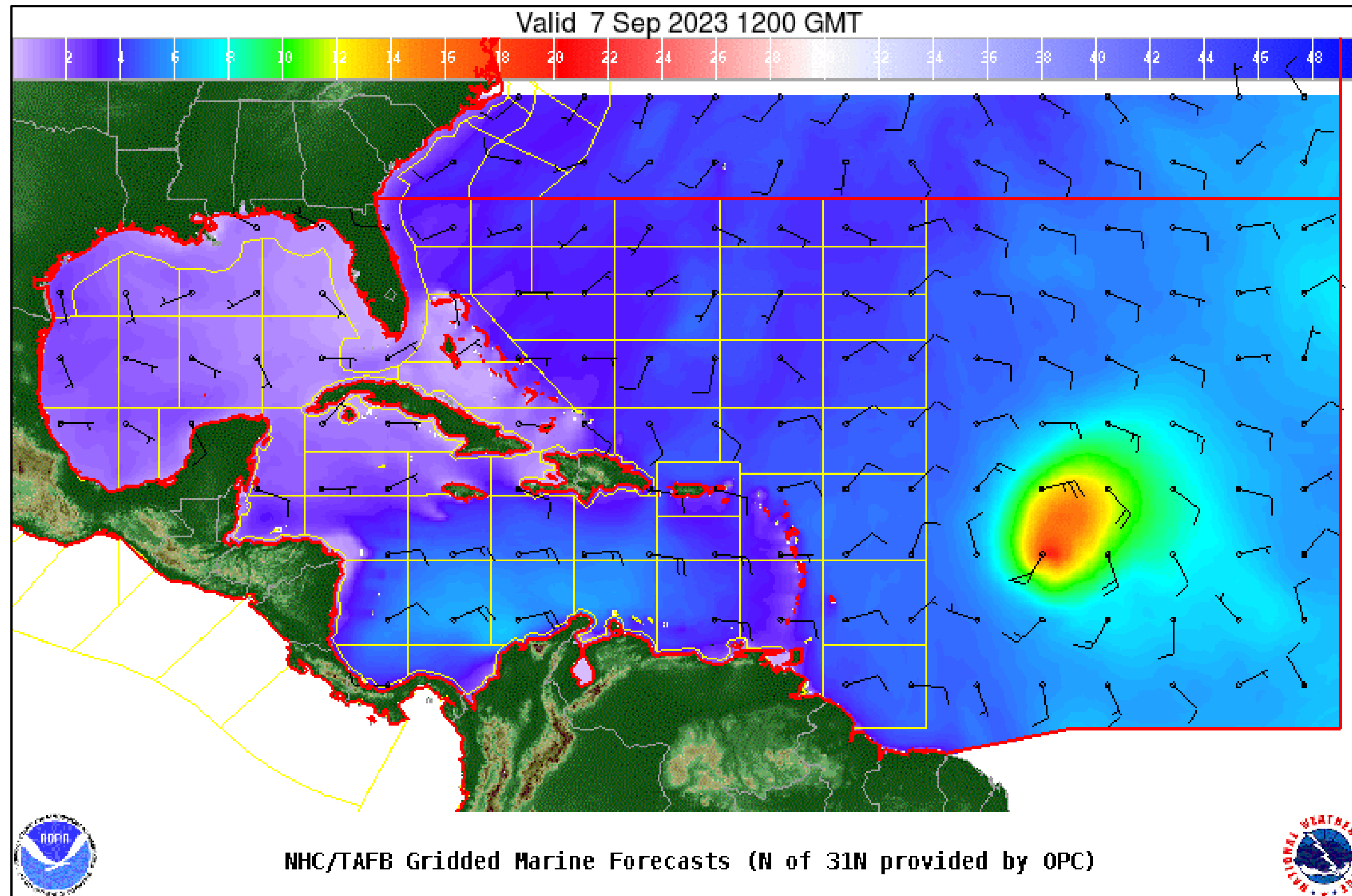


# Wind And Waves

## Tropical Storm Lee



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## 24 Hour Forecast

Peak Winds: 80 KT

Peak Seas: 22 FT

- Wave heights are in feet



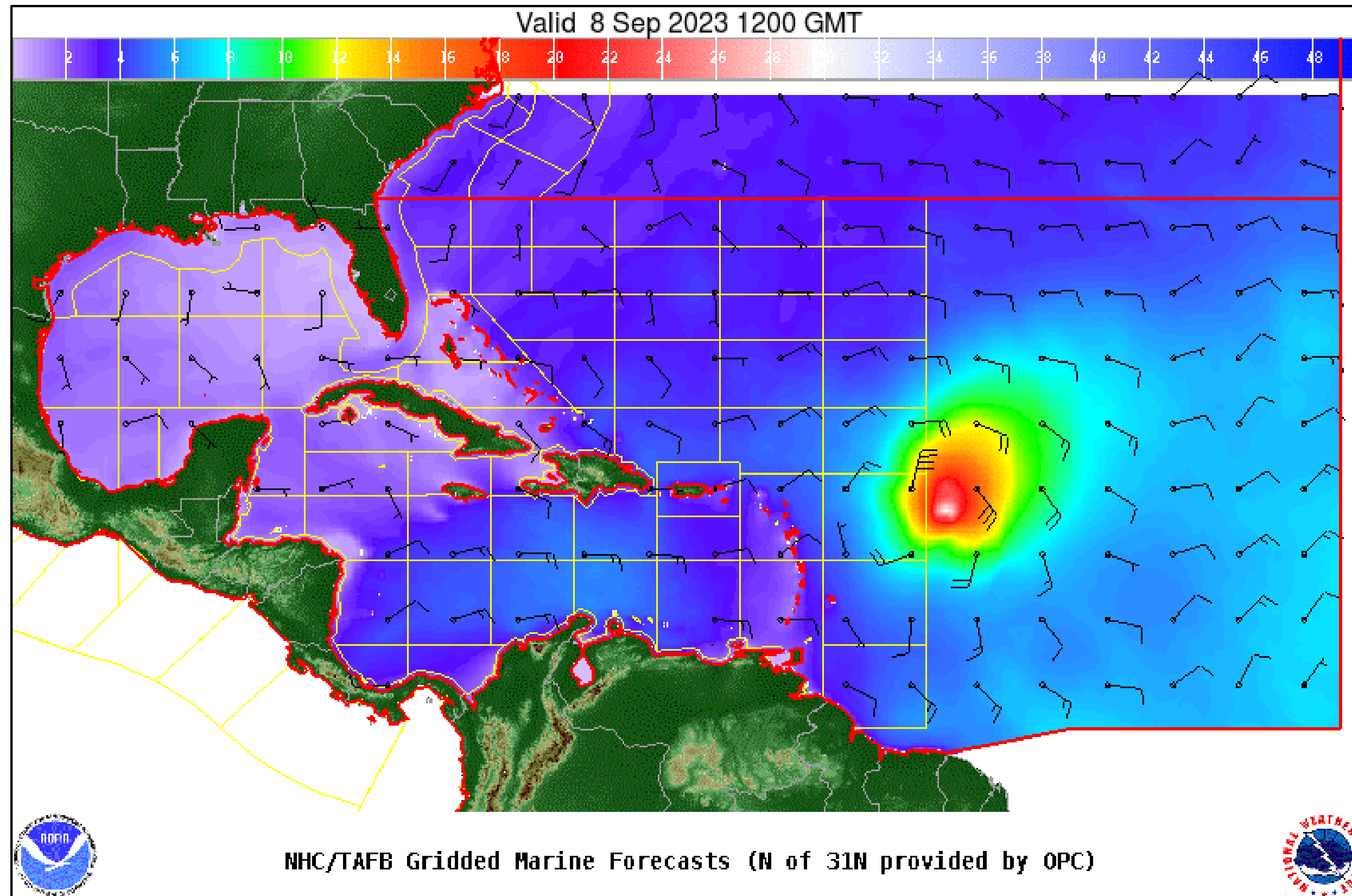
Significant Wave Height (ft)

# Wind And Waves

## Tropical Storm Lee



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## 48 Hour Forecast

Peak Winds: 105 KT

Peak Seas: 34 FT

- Wave heights are in feet



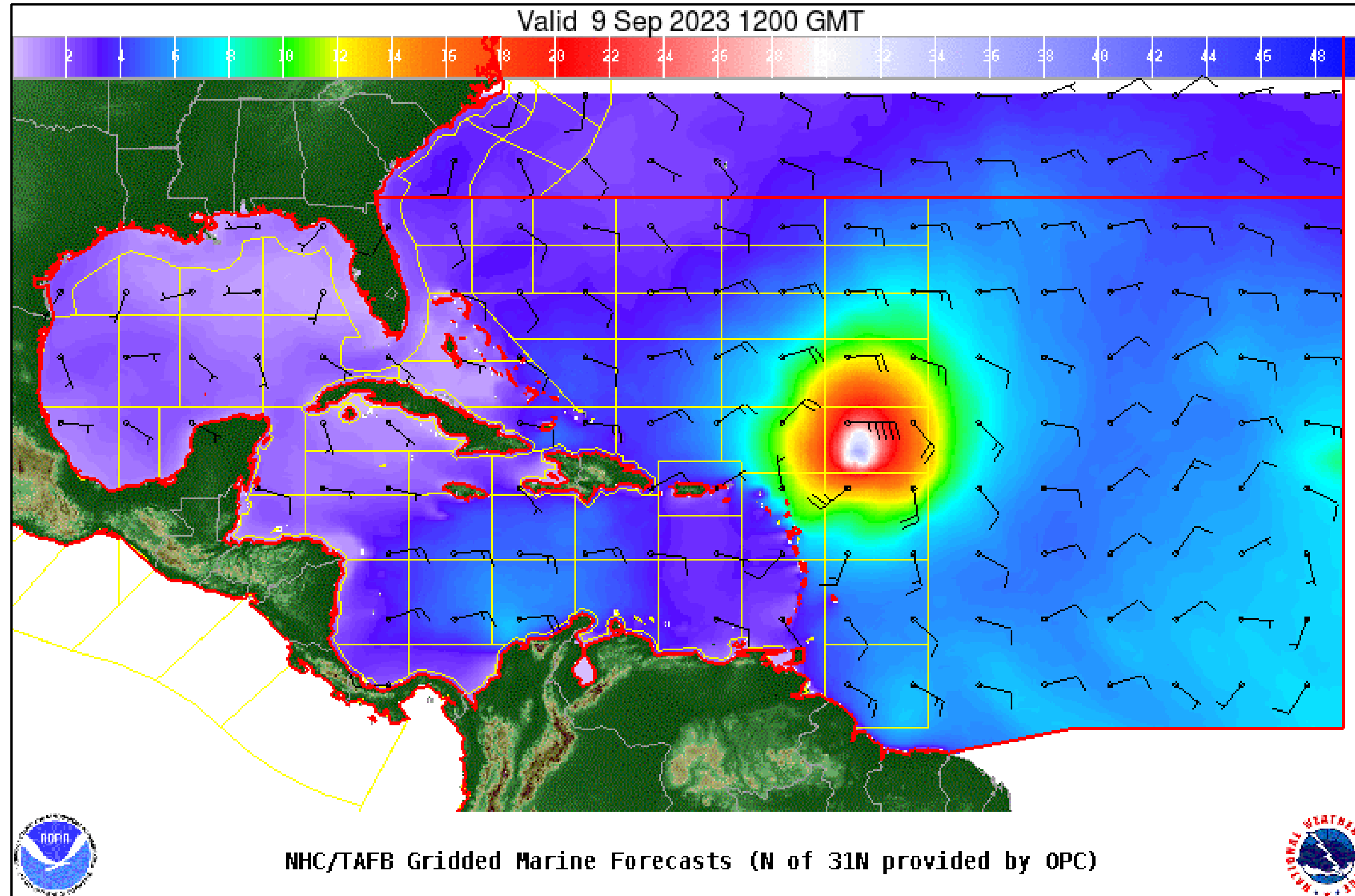
Significant Wave Height (ft)

# Wind And Waves

Tropical Storm Lee



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## 72 Hour Forecast

Peak Winds: 130 KT

Peak Seas: 35 FT

- Wave heights are in feet



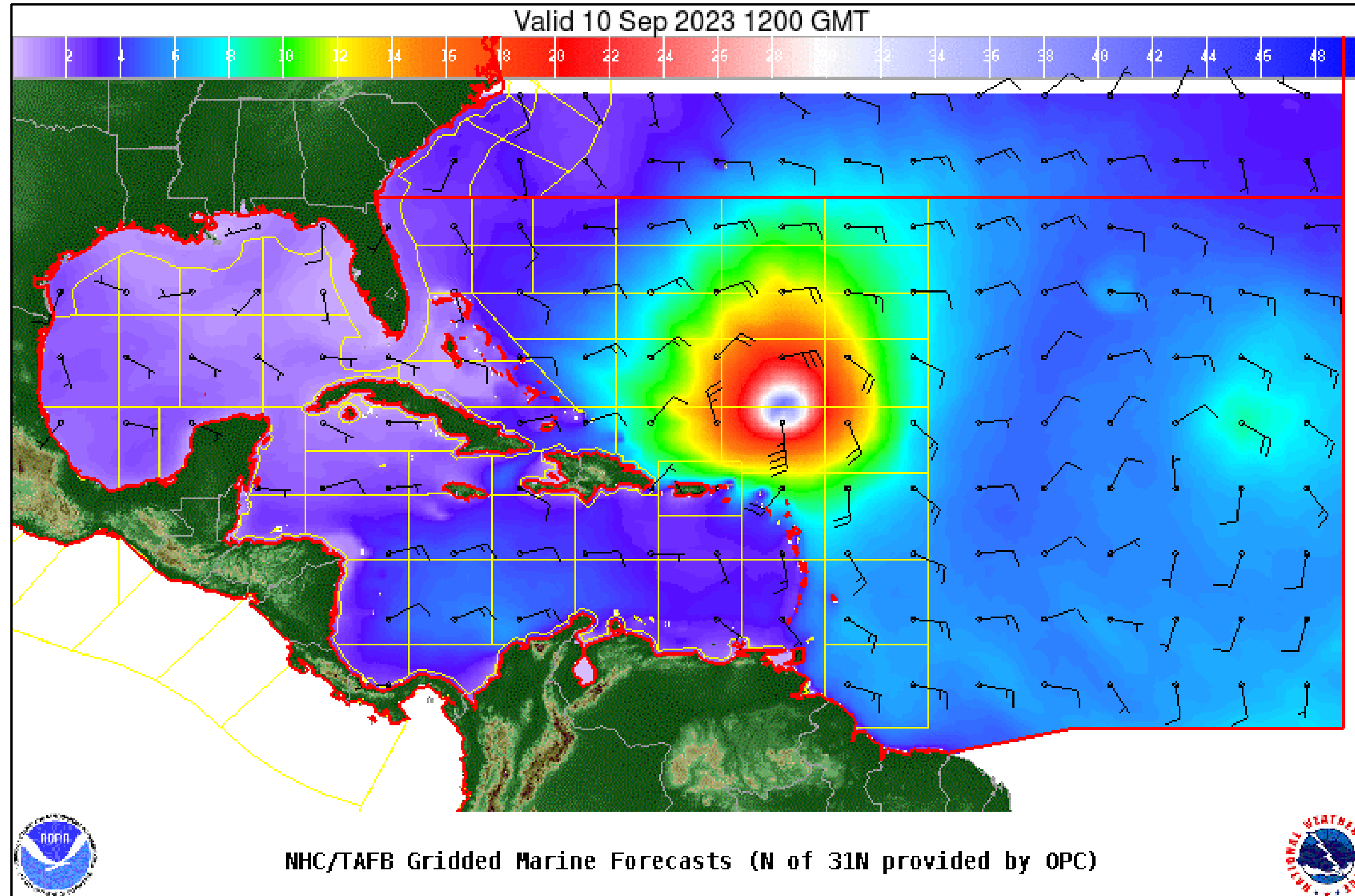
Significant Wave Height (ft)

# Wind And Waves

## Tropical Storm Lee



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## 96 Hour Forecast

Peak Winds: 130 KT  
Peak Seas: 42 FT

- Wave heights are in feet



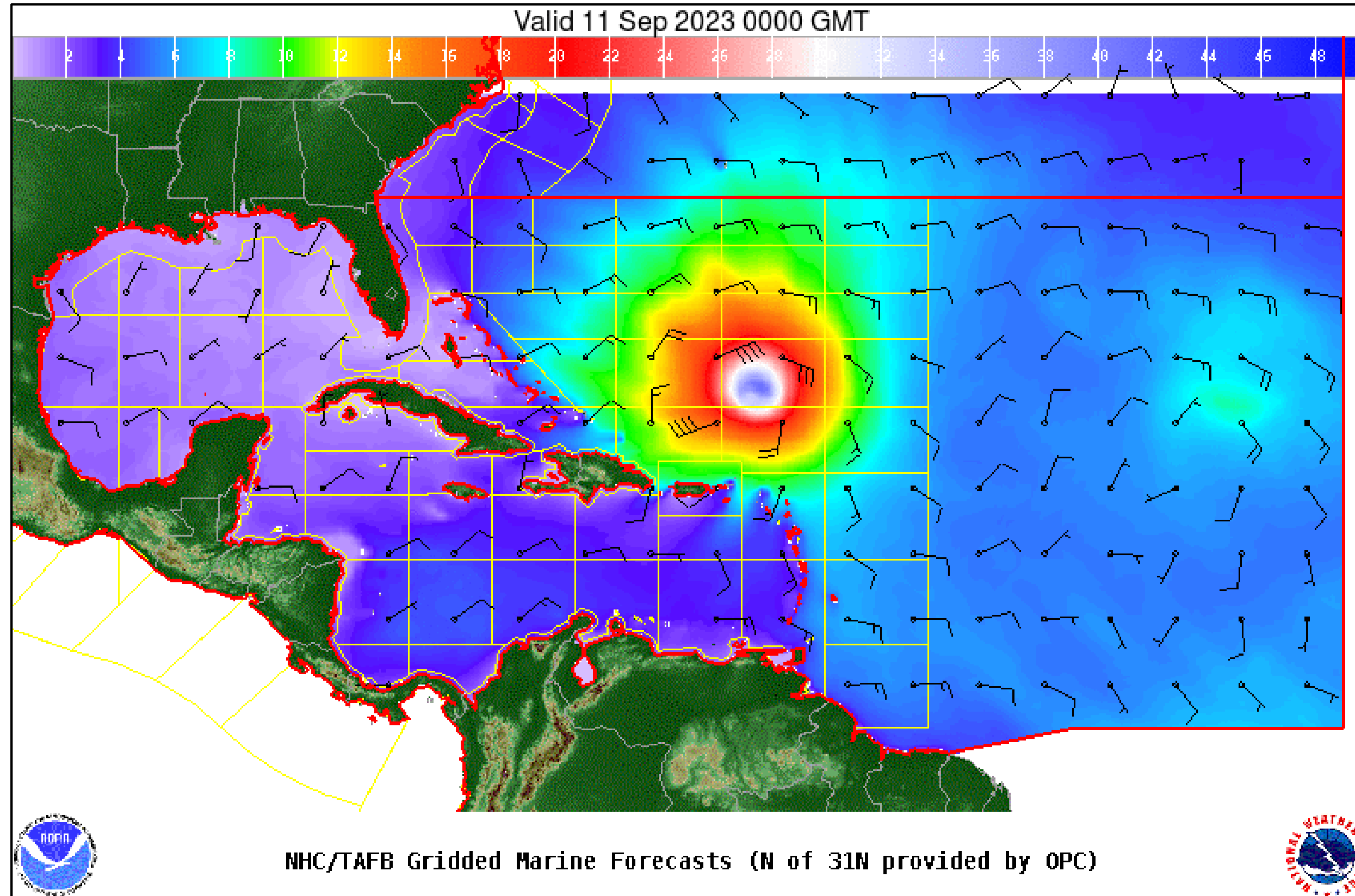
Significant Wave Height (ft)

# Wind And Waves

## Tropical Storm Lee



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### 120 Hour Forecast

Peak Winds: 130 KT

Peak Seas: 37 FT

- Wave heights are in feet



Significant Wave Height (ft)

# Expected Storm Total Rainfall and Chance of Rainfall Flooding

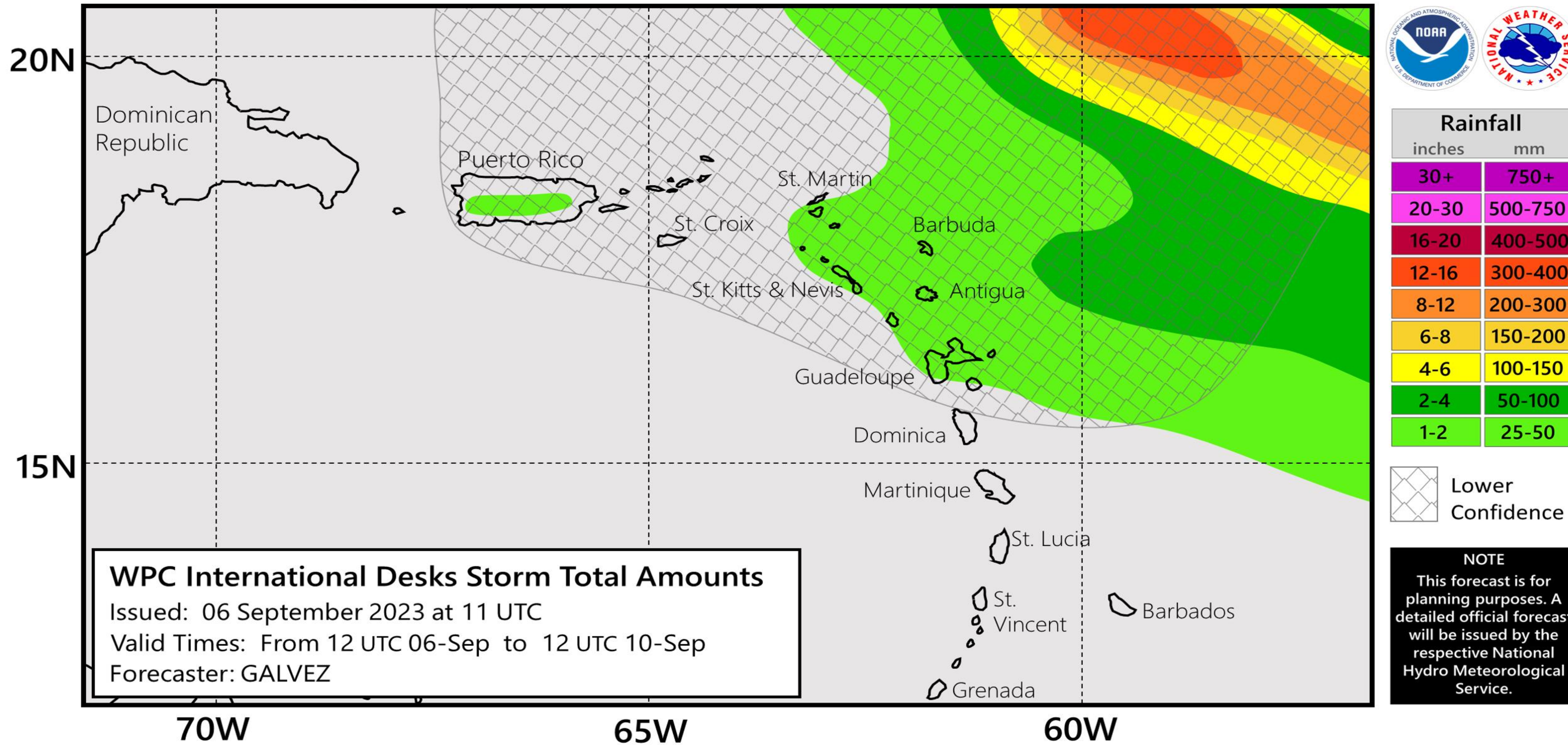


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Tropical Storm Lee

Images from NWS Weather Prediction Center

## Tropical Storm Lee Total Rainfall



# Key Messages

## Tropical Storm Lee



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NWS National Hurricane Center

**Key Messages for Tropical Storm Lee**  
Advisory 4: 5:00 AM AST Wed Sep 06, 2023

1. Lee is forecast to become a major hurricane by late this week and could bring impacts to the Leeward Islands this weekend. While it is too soon to determine the location and magnitude of these possible impacts, interests in this area should monitor the progress of Lee and further updates to the forecast.

**Tropical Storm Lee**  
Wednesday September 06, 2023  
5 AM AST Advisory 4  
NWS National Hurricane Center

**Current information: x**  
Center location 13.7 N 44.6 W  
Maximum sustained wind 65 mph  
Movement WNW at 14 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 field estimate:**

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

Tropical Storm Lee  
Wed. Sep. 6, 2023 5 am AST  
Advisory 4

Storm Location ○ = 34 kt (39 mph) ○ = 44 kt (50 mph) ○ = 64 kt (74 mph)  
Wind Speed ● = 34 kt (39 mph) ● = 44 kt (50 mph) ● = 64 kt (74 mph)

5-day chance of receiving sustained 34+ kt (39+ mph) winds  
0 10 20 30 40 50 60 70 80 90 100 %

All Times AST

For more information go to [hurricanes.gov](https://hurricanes.gov)

- Marine Key Messages:

**IMPACTS FOR D7 (through next 5 days)**

Winds - **Medium**

Storm Surge - **Low**

Rainfall/Flash Flooding - **Low**

Tornadoes - None

Waves - **Medium**



# TROPICAL STORM LEE BRIEFING

You can contact the Tropical Analysis and Forecast Branch at  
305-229-4424

*The Next Briefing Will Be:  
Thursday 8:00 AM EDT*

*You can always find get the latest graphics and information for this storm at [www.hurricanes.gov](http://www.hurricanes.gov)*



NHC\_TAFB

[www.nhc.noaa.gov](http://www.nhc.noaa.gov)