

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

**Winds – High**

**Storm Surge – High**

**Rainfall/Flash Flooding – High**

**Tornadoes – Medium**

**Waves - High**

# Hurricane Lisa BRIEFING

Tue July 18, 2023 – 9am EDT



Prepared by:  
**Andrew Hagen**  
*Tropical Analysis and Forecast Branch  
NWS National Hurricane Center*



# Situation Overview

**\*\*EXERCISE\*\***

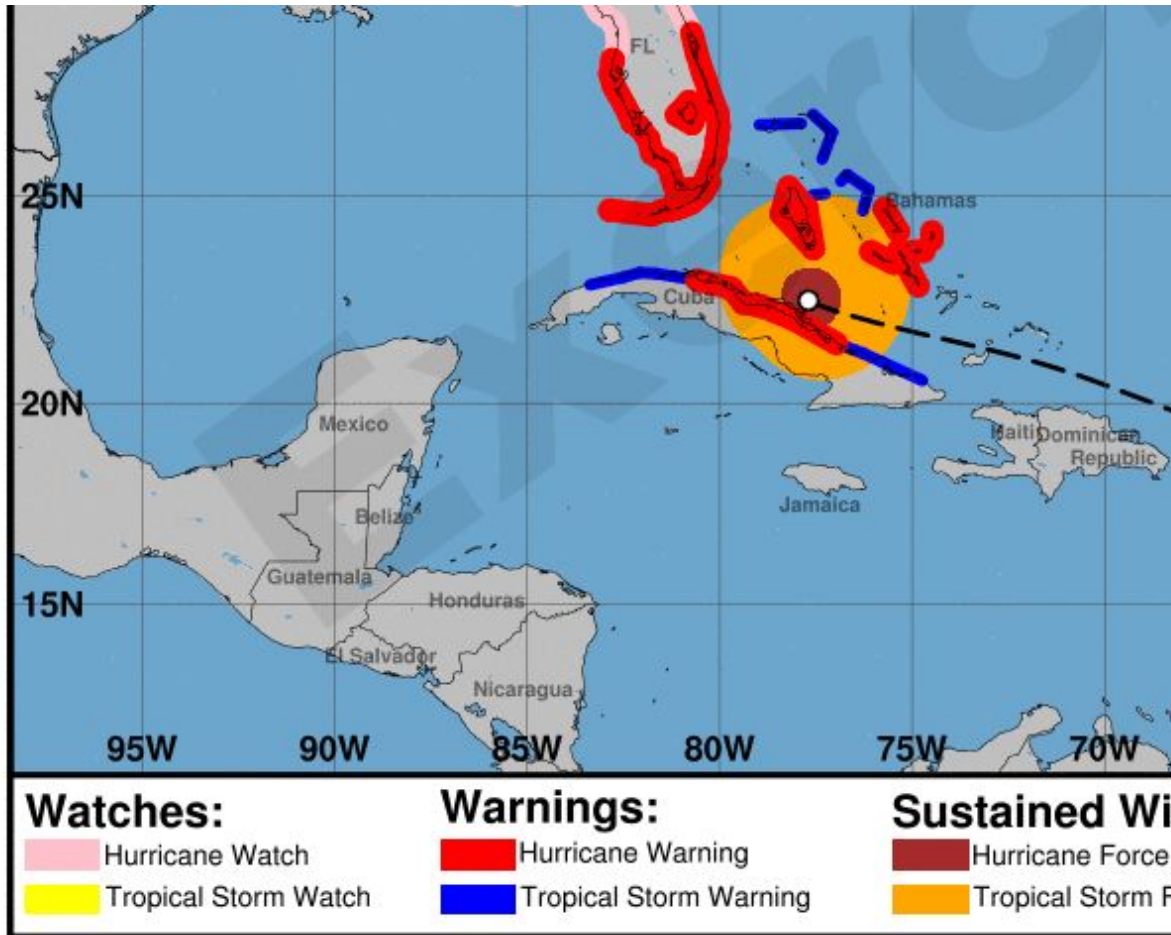


Tropical Analysis and Forecast Branch  
NWS National Hurricane Center

## Hurricane Lisa

### Surface Wind Field of Hurricane Lisa

Sustained Winds as of 500 AM AST Tue Jul 18 2023 Advisory Number 23



## ...Outer bands of Lisa Approaching South Florida...

### Summary of 500 AM EDT Information

Location... 22.5N 77.7W

About 240 nm...SE of Miami, FL

About 255 nm...ESE of Key West, FL

Maximum Sustained Winds...75 kt

Present Movement...WNW at 11 kt

### Size

34 kt...160 NE 130 SE 100 SW 150 NW

Seas to 25 ft

# Forecast Information

## Hurricane Lisa

**\*\*EXERCISE\*\***



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center



- **Hurricane Warnings and Storm Surge Warning for South Florida, the Florida Keys, and the west coast of Florida through Tampa Bay.**
- **Prolonged period of TS winds or stronger lasting for more than 24 hours expected for portions of South Florida and the Florida Keys**
- **Lisa is forecast to remain a hurricane through Wednesday night.**

- Current center forecast positions through the next 5 days illustrated by dots
- White swath is potential track error through day 3
- Hatched swath is potential track error on days 4-5

\*\* Swaths are designed so the actual track will occur inside the cone two-thirds of the time. One-third of the time, the center will track outside the cone.

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

# T.S. Wind Speed Probabilities

**\*\*EXERCISE\*\***



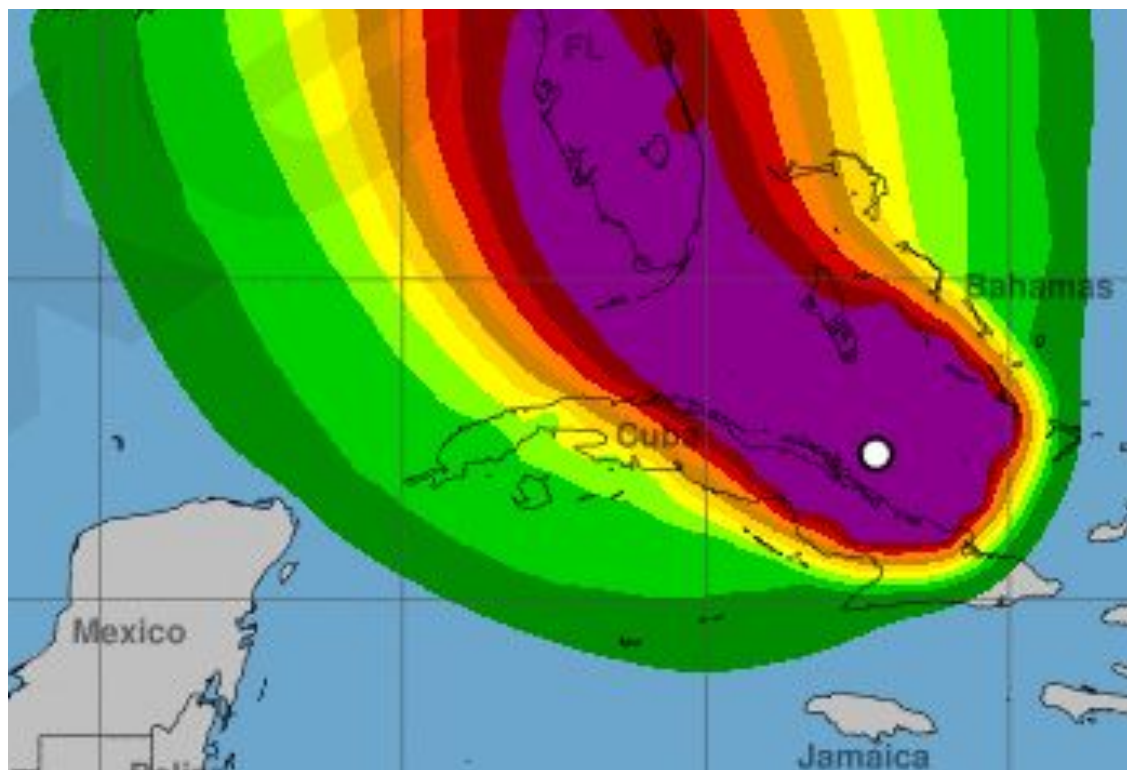
Tropical Analysis and Forecast Branch  
NWS National Hurricane Center

Hurricane Lisa



## Tropical-Storm-Force Wind Speed Probabilities

For the 72 hours (3.00 days) from 2 AM AST TUE JUL 18 to 2 AM AST FRI JUL 21



Probability of tropical-storm-force winds (1-minute average  $\geq 39$  mph) from all tropical cyclones  
O indicates Hurricane Lisa center location at 2 AM AST TUE JUL 18 2023 (Forecast/Advisory #23)



- Tampa 95% (+5%)
  - Key West 90% ( $\pm 0\%$ )
  - Miami 95% ( $\pm 0\%$ )
  - Opa Locka 95% ( $\pm 0\%$ )
  - Ft Lauderdale 95% ( $\pm 0\%$ )
- 
- 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.

# Hurricane Wind Speed Probabilities

**\*\*EXERCISE\*\***

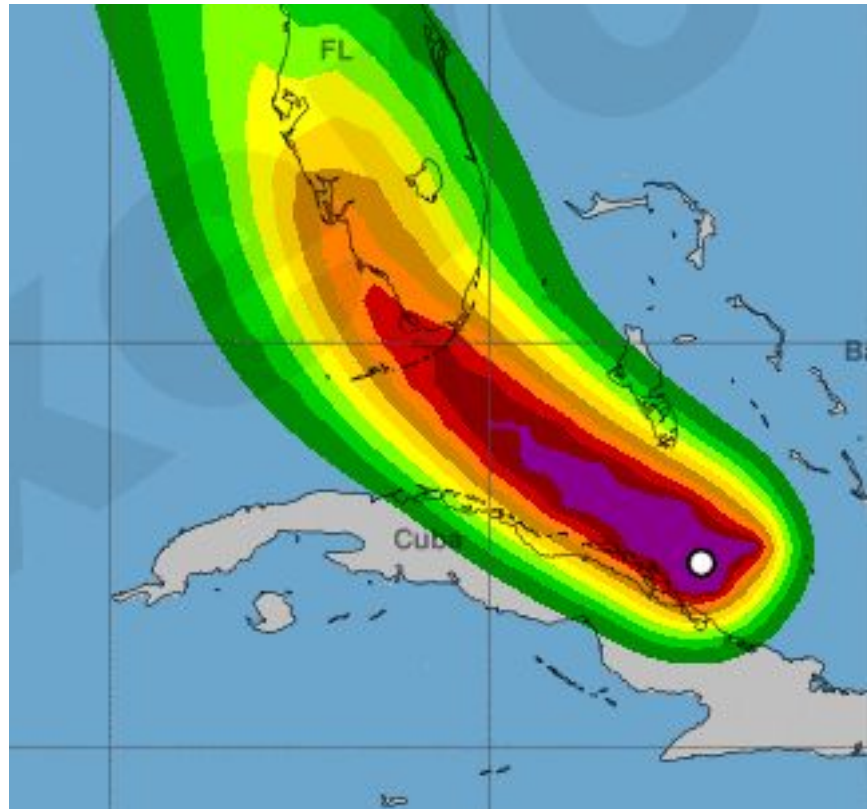


Tropical Analysis and Forecast Branch  
NWS National Hurricane Center

Hurricane Lisa

## Hurricane-Force Wind Speed Probabilities

For the 72 hours 3.00 days) from 2 AM AST TUE JUL 18 to 2 AM AST FRI JUL 21



Probability of hurricane-force winds (1-minute average  $\geq 74$  mph) from all tropical cyclones  
○ indicates Hurricane Lisa center location at 2 AM AST TUE JUL 18 2023 Forecast/Advisory #23



- Key West 35% ( $\pm 0\%$ )
  - Miami 40% ( $\pm 0\%$ )
  - Opa Locka: 35% ( $\pm 0\%$ )
  - Ft Lauderdale 30% ( $\pm 0\%$ )
  - Tampa 35% (-5%)
- 
- Probabilities of sustained hurricane force winds (64 kt +) over the next 5 days, based off this cyclone's wind radii and track.

# Most Likely Time of Arrival and T.S. Wind Speed Probabilities

**\*\*EXERCISE\*\***

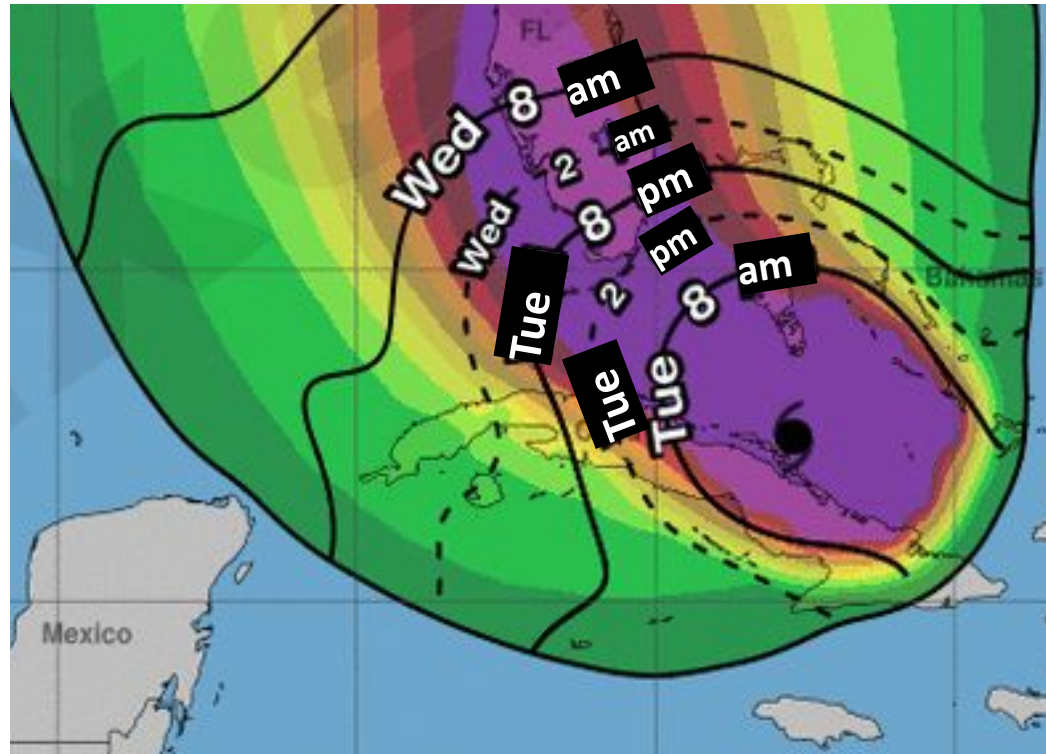


Tropical Analysis and Forecast Branch  
NWS National Hurricane Center

Hurricane Lisa



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



- South FL and the FL Keys: **This afternoon**
- Tampa Bay area: **Early Wed**
- 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.

<b>Hurricane Lisa</b>	Storm Location & Wind Speed (knots)	Five-day chance of receiving sustained 34+ knot (39+ mph) winds
<b>TUE JUL 18 2023</b>	<b>5 am AST</b>	
<b>Advisory 23</b>	<b>0 &lt;34 34-63 ≥64</b>	<b>5 10 20 30 40 50 60 70 80 90 100 %</b>

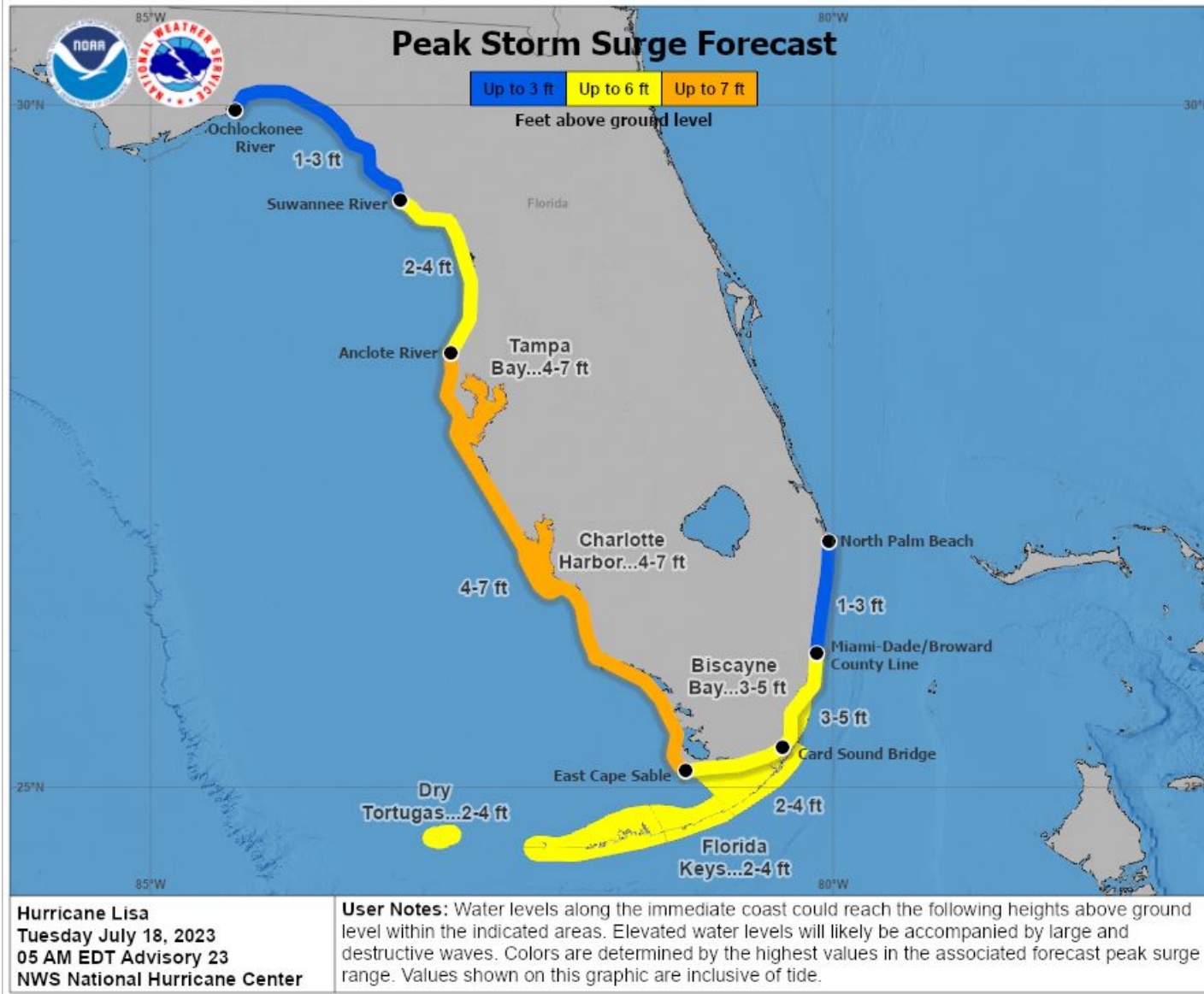
# Storm Surge

**\*\*EXERCISE\*\***



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center

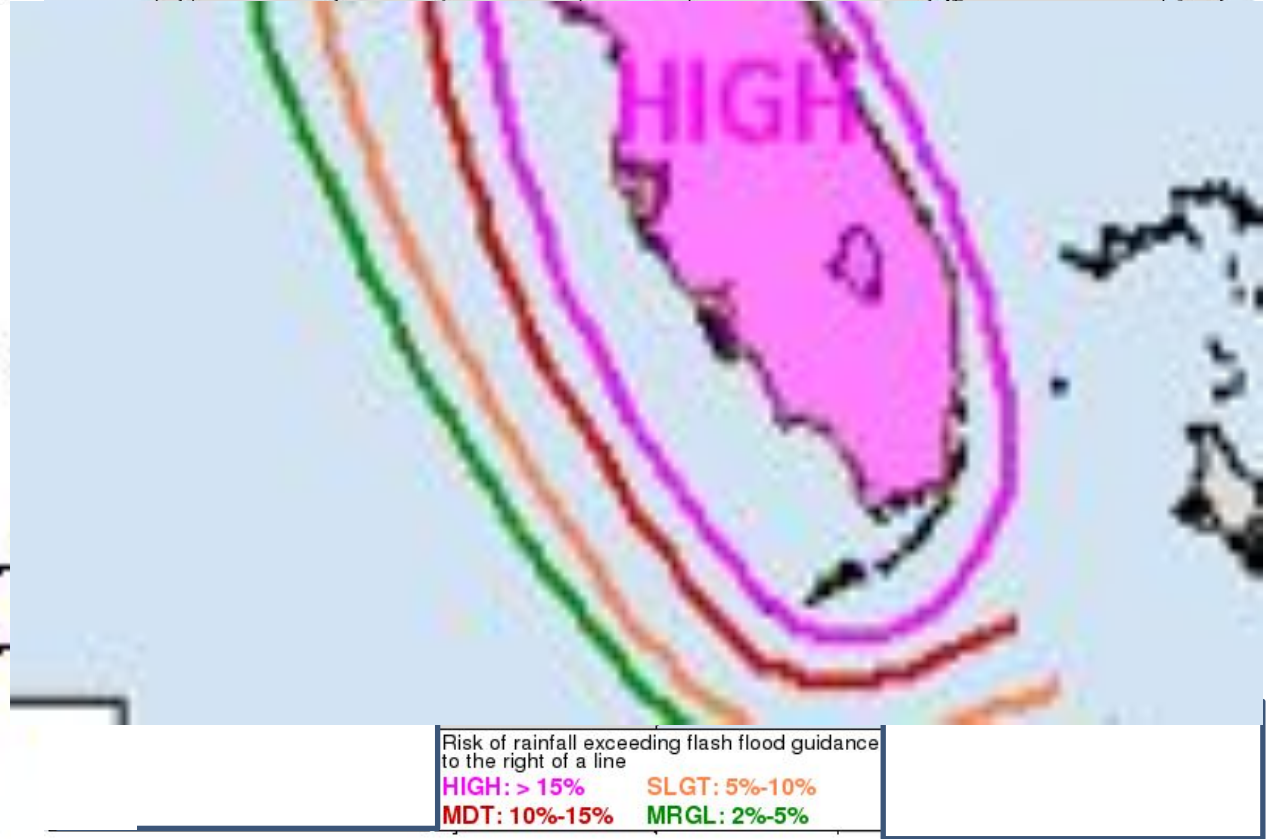
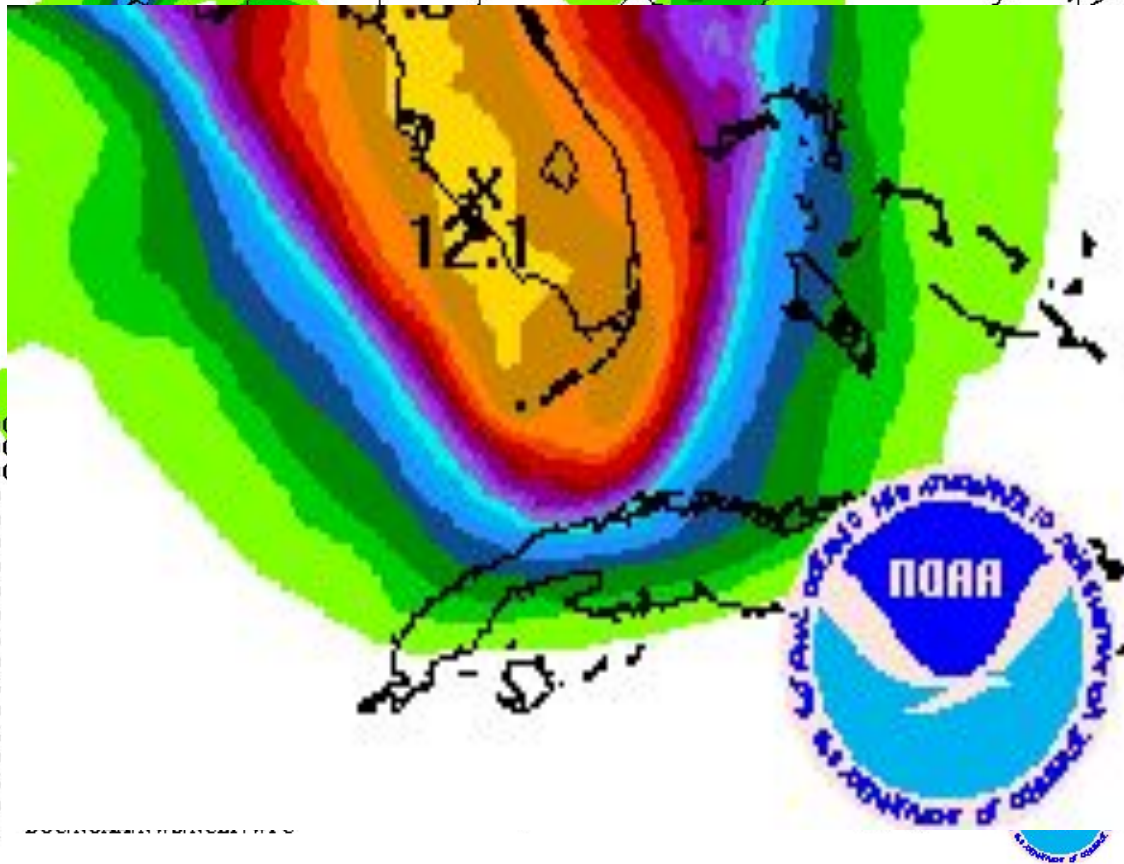
## Hurricane Lisa



- A storm surge of 4-7 ft above ground level is expected along the west coast of Florida. This includes the Tampa Bay area.
- A storm surge of 3-5 ft above ground level is forecast to occur somewhere along the coast near Biscayne Bay.
- A storm surge of 2-4 ft is forecast for portions of the Florida Keys, and for portions of the area from Anclote River to Suwannee River.



### Hurricane Lisa



- Total rainfall in inches over the next 3 days
- Rainfall amounts 6-12" with localized amounts of 20" possible

Risk of rainfall exceeding flash flood guidance within 25 miles of a point

**HIGH: > 50%**      **SLGT: 10%-20%**  
**MDT: 20%-50%**      **MRGL: 5%-10%**

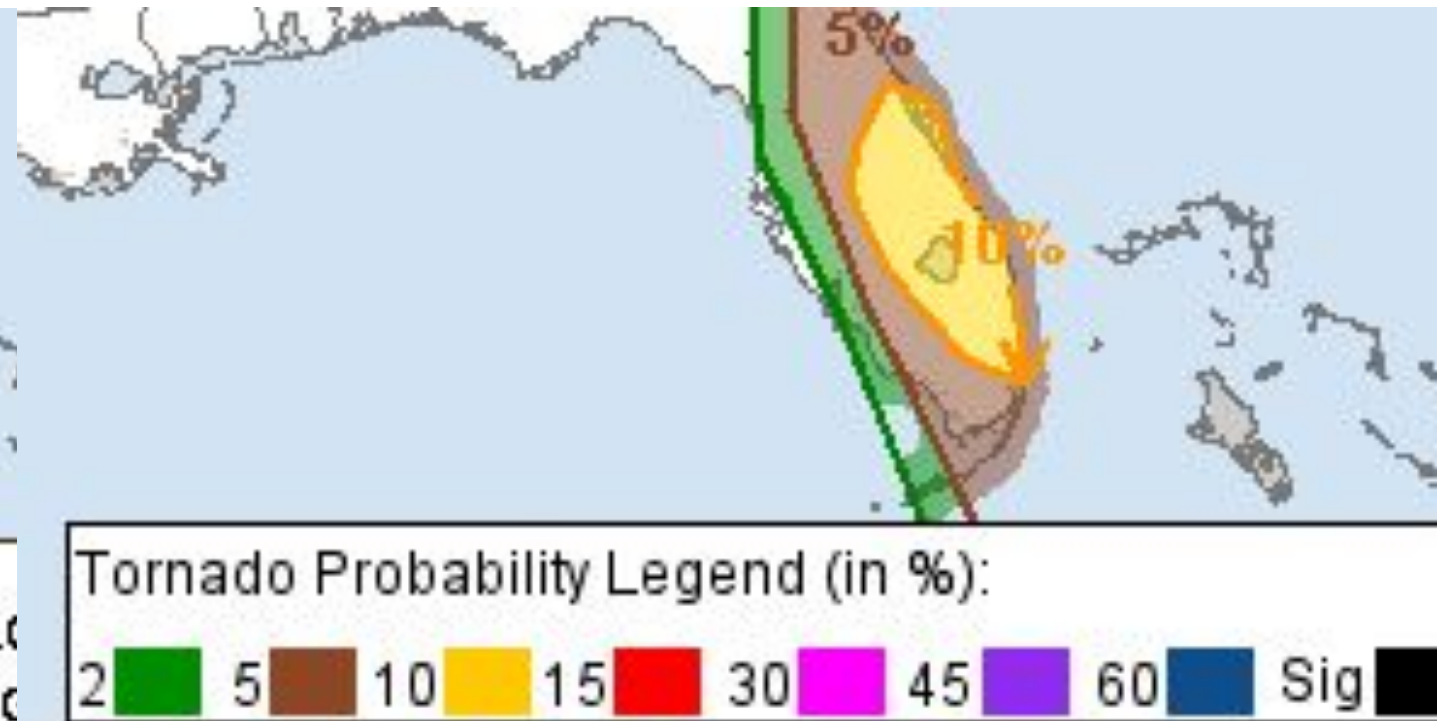
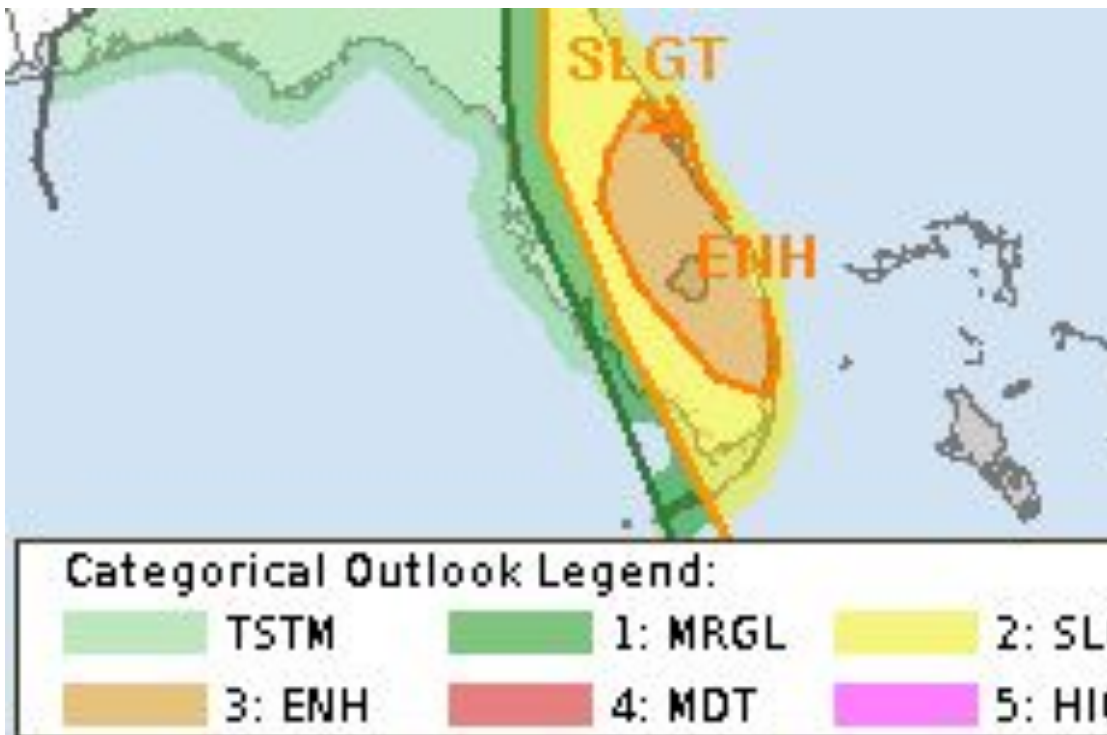
# Tornado Potential - Storm Prediction Center

\*\*\*EXERCISE\*\*\*

Hurricane Lisa



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center



Day 1-2  
(Today through Wed night)



## Hurricane Lisa

- Large waves and hazardous surf are already occurring along the coast of southeast Florida and the Florida Keys, and will spread northward through the day.
- Seas of **20-25 ft** will build near South Florida and the Keys

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

**Winds – High**

**Storm Surge – High**

**Rainfall/Flash Flooding – High**

**Tornadoes – Medium**

**Waves - High**