

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 – 4pm EDT



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Tropical Analysis and Forecast Branch
NWS National Hurricane Center



Situation Overview

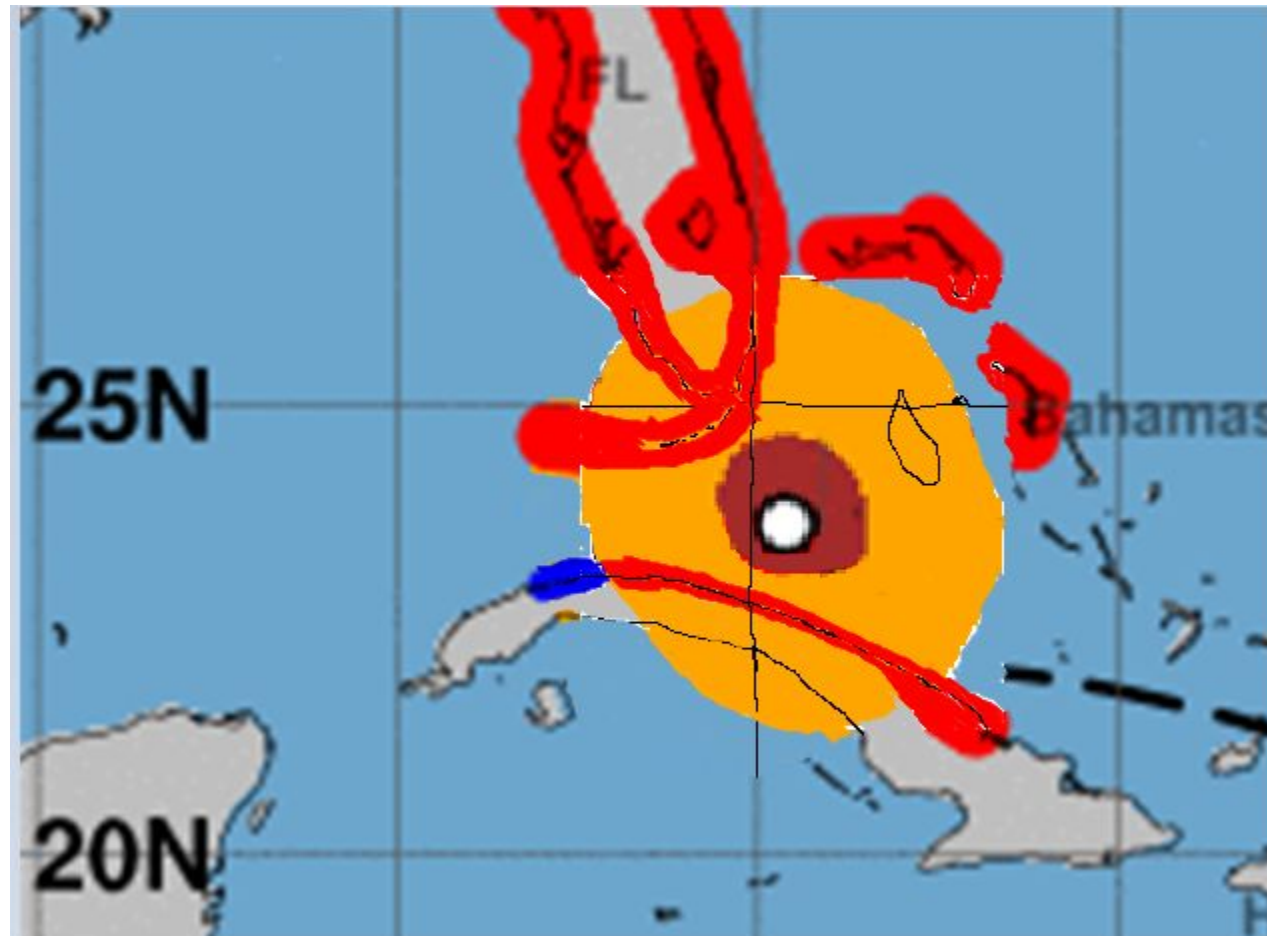
****EXERCISE****



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Hurricane Lisa

 **Surface Wind Field of Hurricane Lisa** 
Sustained Winds as of 500 PM AST Tue Jul 18 2023 Advisory Number 25



...Tropical Storm Conditions Spreading Across South Florida and the Keys...

Summary of 500 PM EDT Information

Location... 23.6N 79.7W
About 130 nm...SSE of Miami, FL
About 125 nm...ESE of Key West, FL
Maximum Sustained Winds... 75 kt
Present Movement... NW at 12 kt

Size

34 kt...160 NE 130 SE 100 SW 150 NW
Seas to 25 ft

****EXERCISE****

****EXERCISE****

Forecast Information

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Hurricane Lisa

- **Hurricane Warnings and Storm Surge Warnings remain in effect for South Florida, the Florida Keys, and the west coast of Florida.**
- **TS winds may continue for South FL and the Florida Keys through late Wed night, with hurricane conditions arriving tonight, with the highest risk for the Upper Florida Keys**
- **Lisa is forecast to remain a hurricane through Wednesday night, when the center makes its closest approach to the Tampa Bay area**

- 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.

****EXERCISE****

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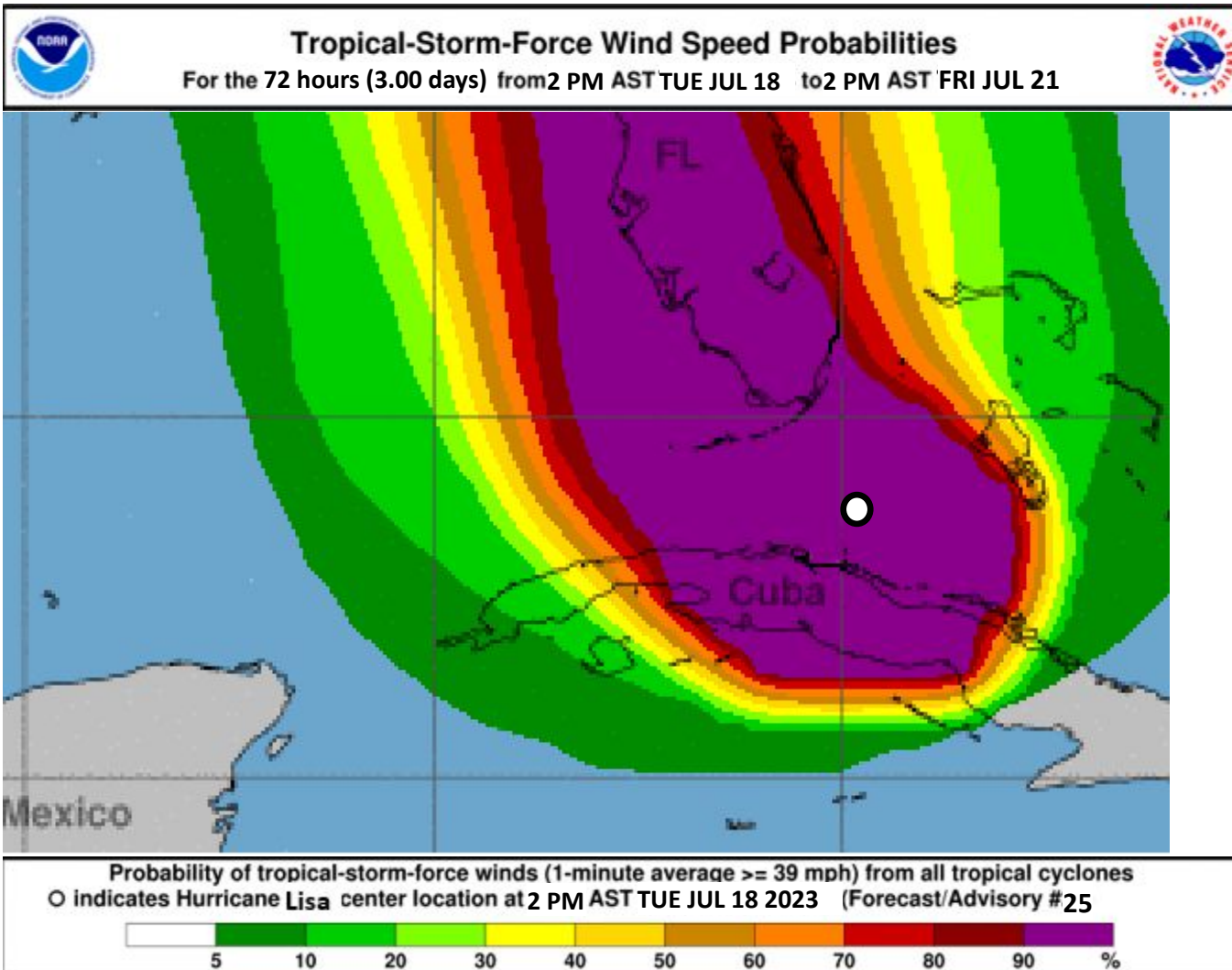
T.S. Wind Speed Probabilities

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Hurricane Lisa



- Tampa 95% ($\pm 0\%$)
 - Key West 95% (+5%)
 - 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.

****EXERCISE****

****EXERCISE****

Hurricane Wind Speed Probabilities

****EXERCISE****

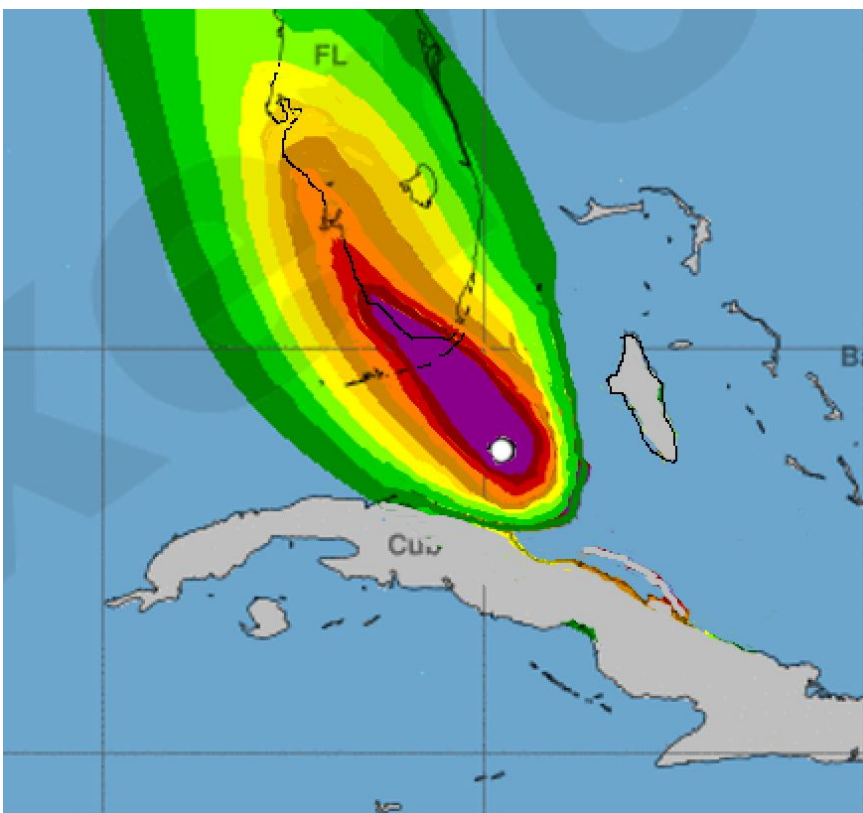


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Hurricane Lisa

Hurricane-Force Wind Speed Probabilities

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



Probability of hurricane-force winds (1-minute average ≥ 74 mph) from all tropical cyclones
○ indicates Hurricane Lisa center location at 2 PM AST TUE JUL 18 2023 Forecast/Advisory #25



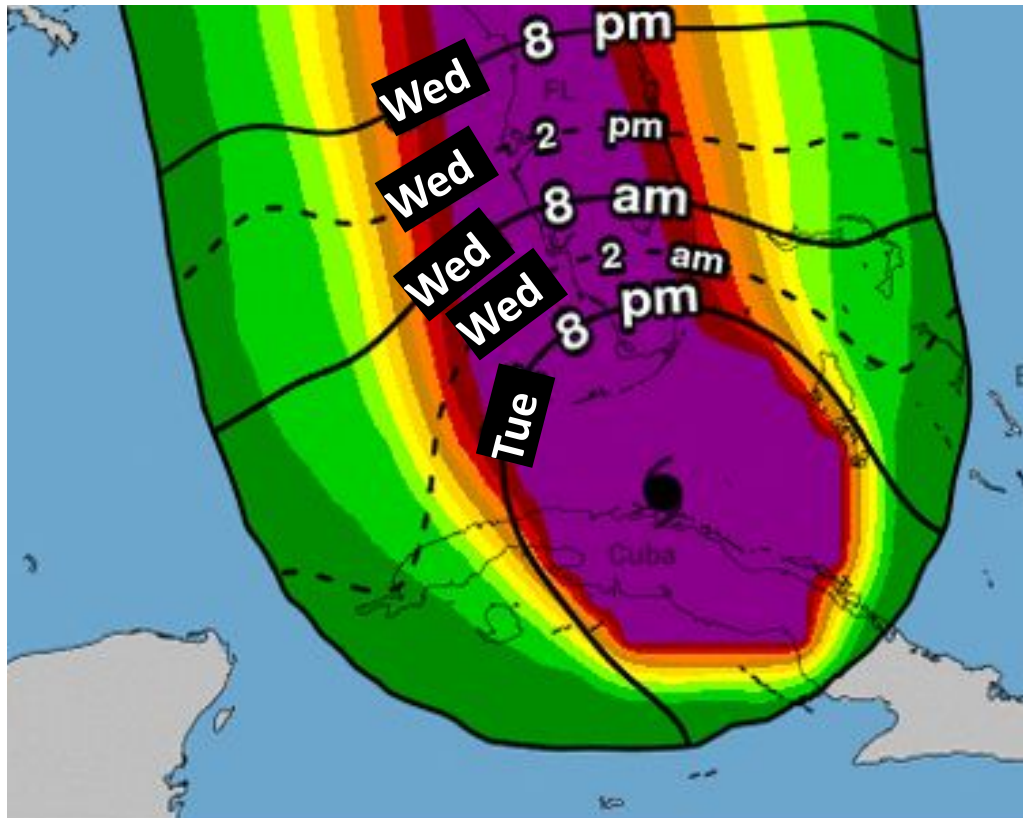
- Key West 40% (+5%)
 - Miami 40% ($\pm 0\%$)
 - Opa Locka: 35% ($\pm 0\%$)
 - Ft Lauderdale 30% ($\pm 0\%$)
 - Tampa 40% (+5%)
-
- Probabilities of sustained hurricane force winds (64 kt +) over the next 5 days, based off this cyclone's wind radii and track.



Hurricane Lisa



Most Likely Arrival Time of Tropical-Storm-Force Winds



- Tampa Bay area: **Midday 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.

Hurricane Lisa
TUE JUL 18 2023 5 pm AST
Advisory 25

Storm Location & Wind Speed (knots)
○ <34 ○ 34-63 ● ≥64

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

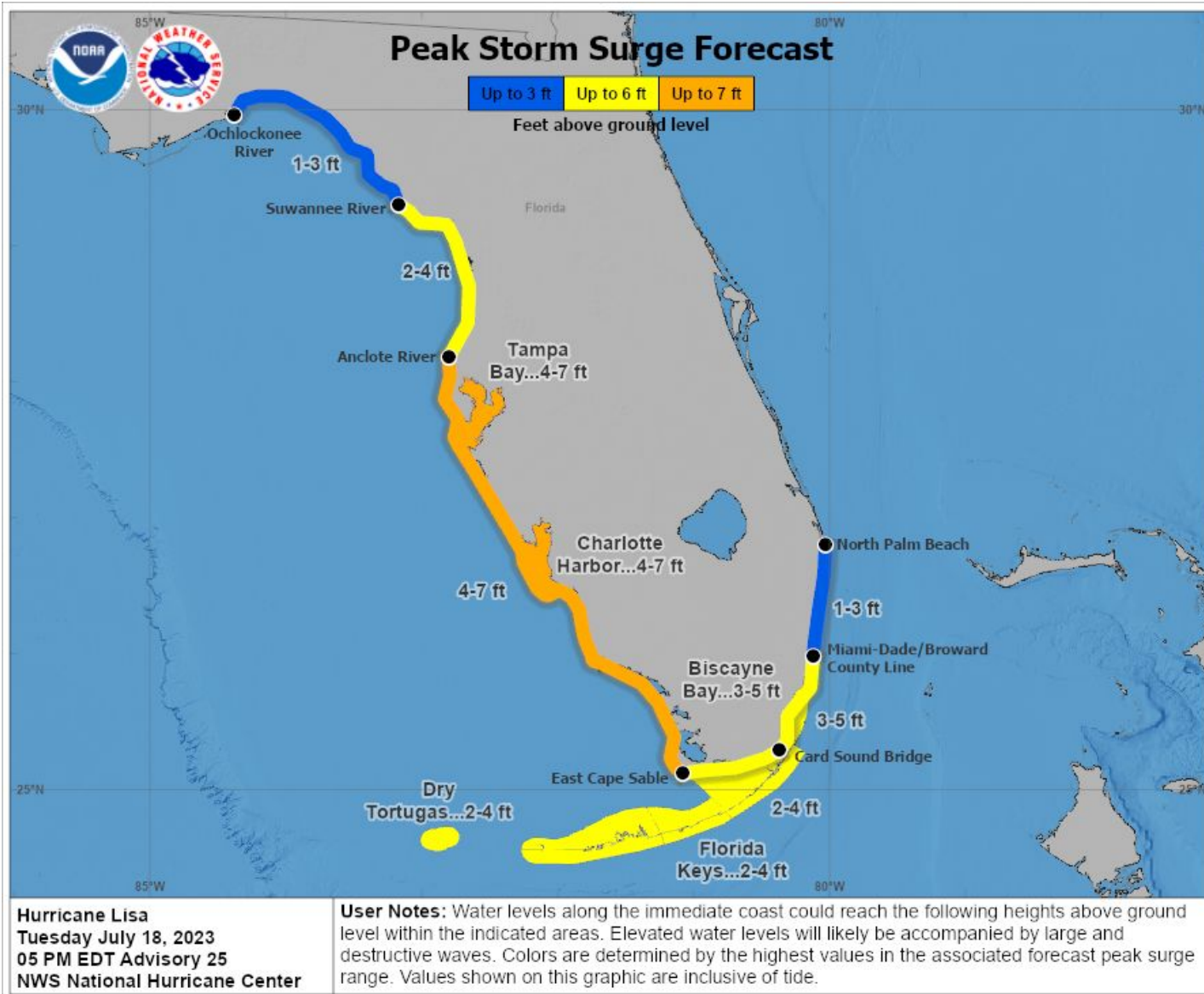
Storm Surge

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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.

****EXERCISE****

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Expected Storm Total Rainfall and Chance of Rainfall Flooding

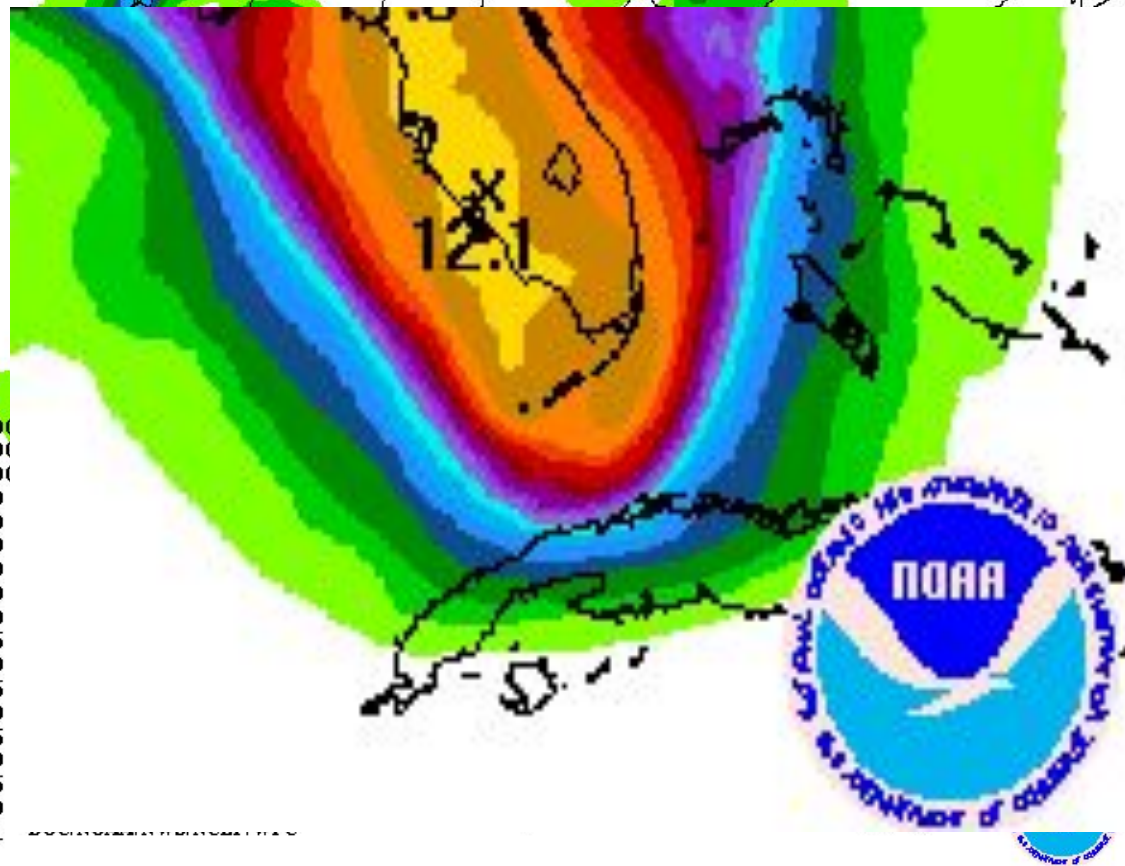
Weather Prediction Center

****EXERCISE****



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NWS National Hurricane Center

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 to the right of a line
HIGH: > 15% **SLGT:** 5%-10%
MDT: 10%-15% **MRGL:** 2%-5%

Risk of rainfall exceeding flash flood guidance within 25 miles of a point
HIGH: > 50% **SLGT:** 10%-20%
MDT: 20%-50% **MRGL:** 5%-10%



Hurricane Lisa



Categorical Outlook Legend:



Tornado Probability Legend (in %):



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 evening.
- **20-25 ft** seas will build this evening near South Florida and the Keys

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