

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

**Winds – High to Extreme**

**Storm Surge – Medium**

**Rainfall/Flash Flooding – Extreme**

**Tornadoes – Low**

**Waves - Extreme**

# Hurricane Lisa BRIEFING

Fri July 14, 2023 – 9am EDT



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



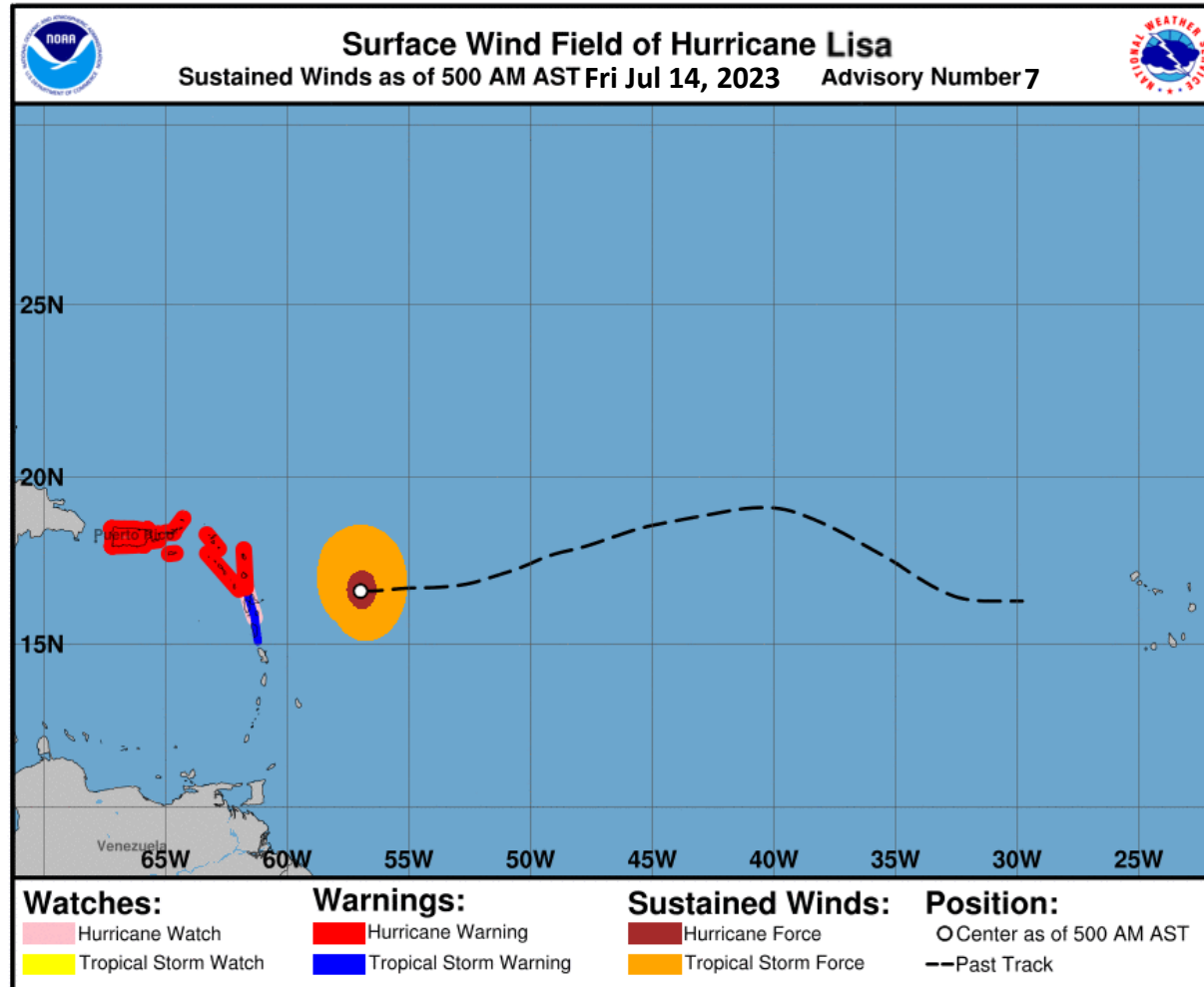
# Situation Overview

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



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Hurricane Lisa



**...Dangerous Hurricane Lisa Heading for Leeward Islands with 130 mph Winds...**

Summary of 500 AM EDT Information

Location... 16.6N 57.0W  
About 280 nm...E of Leeward Islands  
About 530 nm...ESE of San Juan, PR  
Maximum Sustained Winds... 115 kt  
Present Movement... W at 12 kt

Size  
34 kt... 120 NE 100 SE 80 SW 120 NW  
Seas to 42 ft

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

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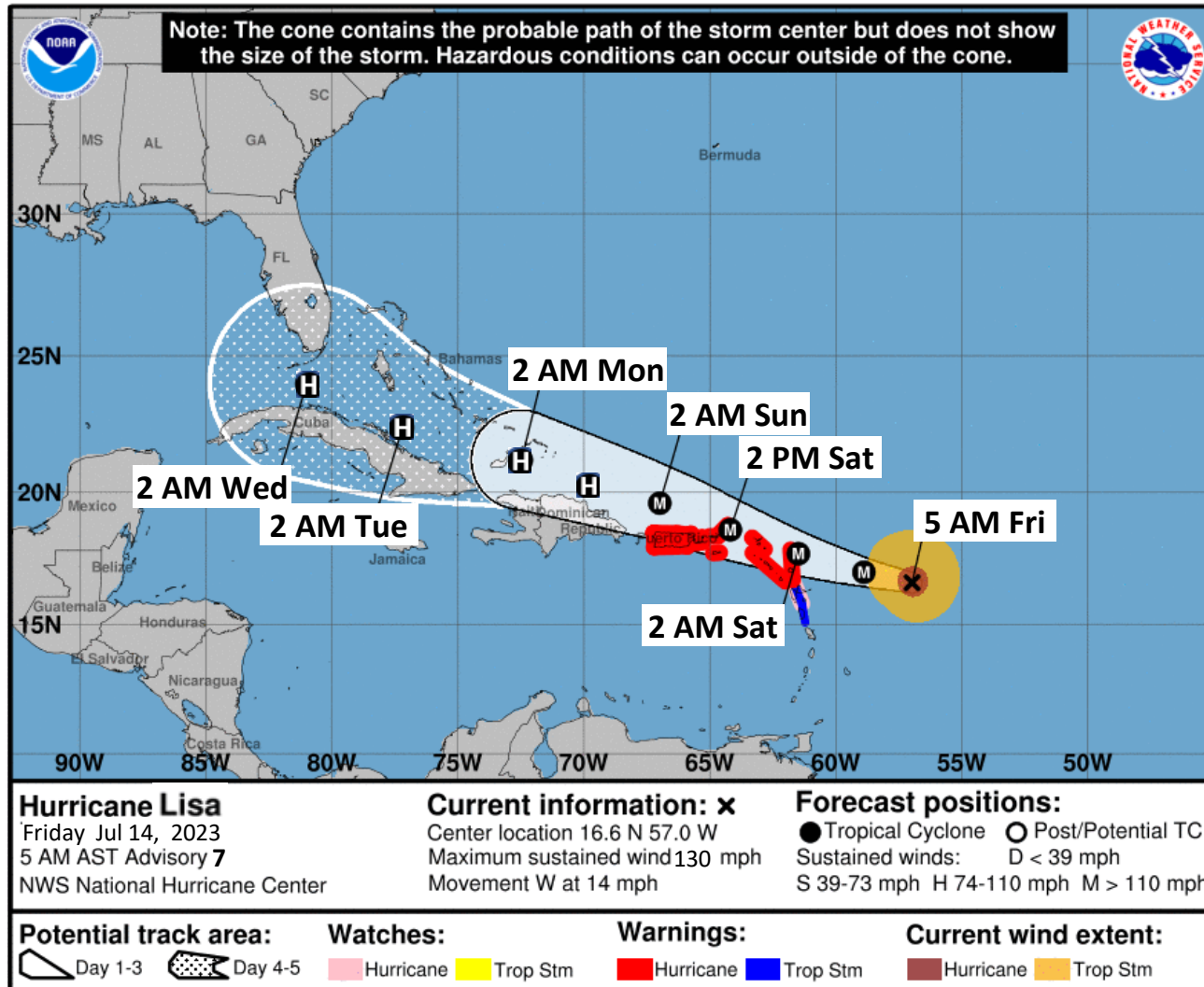
# Forecast Information

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## Hurricane Lisa



- Lisa will move over the northern Leeward Islands by Sat morning, and approach Puerto Rico Sat afternoon
- Lisa is expected to continue moving WNW, staying near, or just north of, the Greater Antilles through Tue and potentially impact the southern Bahamas by Mon
- Although some gradual weakening is possible, Lisa is expected to remain a major hurricane until after it passes near Puerto Rico.
- It's still too early to determine what, if any, impacts may occur mid-late next week for portions of Florida or the SE US

- Current center forecast positions through the next 5 days illustrated by dots
- White swatch is potential track error through day 3
- Hatched swatch 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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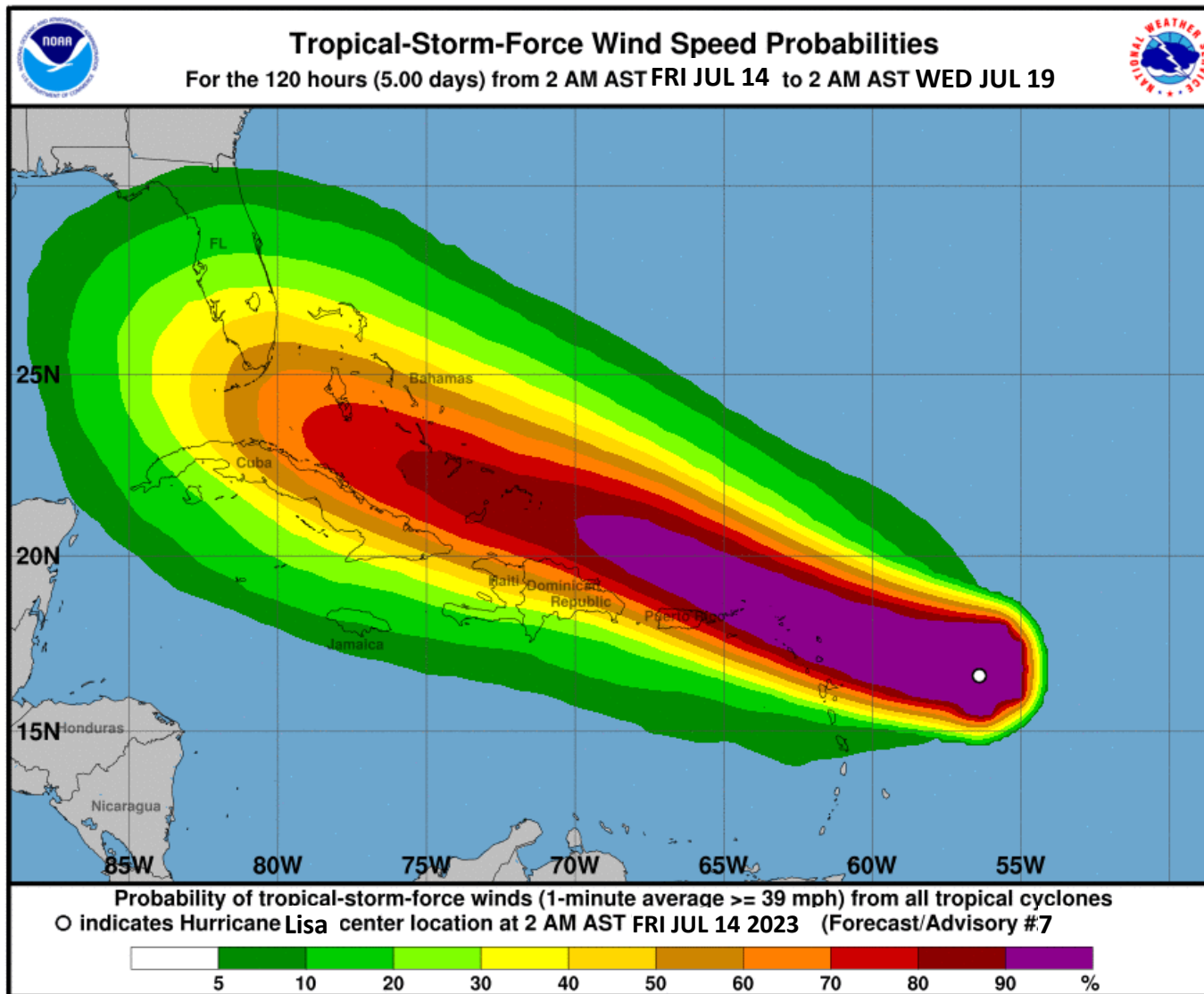
# T.S. Wind Speed Probabilities

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## Hurricane Lisa



- Ponce 65% (+5%)
- San Juan PR 85% (+5%)
- Aguadilla, PR 70% ( $\pm 0\%$ )
- Vieques 85% (+5%)
- St. Croix 80% (+5%)
- St. Thomas 95% (+5%)
  
- Tampa 20% (+10%)
- Key West 50% (+20%)
- Miami 50% (+10%)
- Opa Locka 50% (+15%)
- Ft Lauderdale 45% (+10%)

- 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



- Ponce 20% ( $\pm 0\%$ )
- San Juan PR 45% ( $\pm 0\%$ )
- Aguadilla, PR 30% ( $\pm 0\%$ )
- Vieques 45% ( $\pm 0\%$ )
- St. Croix 30% ( $\pm 0\%$ )
- St. Thomas 60% (+5%)
  
- Key West 20% (+10%)
- Miami 15% (+5%)
- Opa Locka 10% (+5%)
- Ft Lauderdale 5% ( $\pm 0\%$ )

- 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 Tropical Storm Wind Speed Probabilities

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

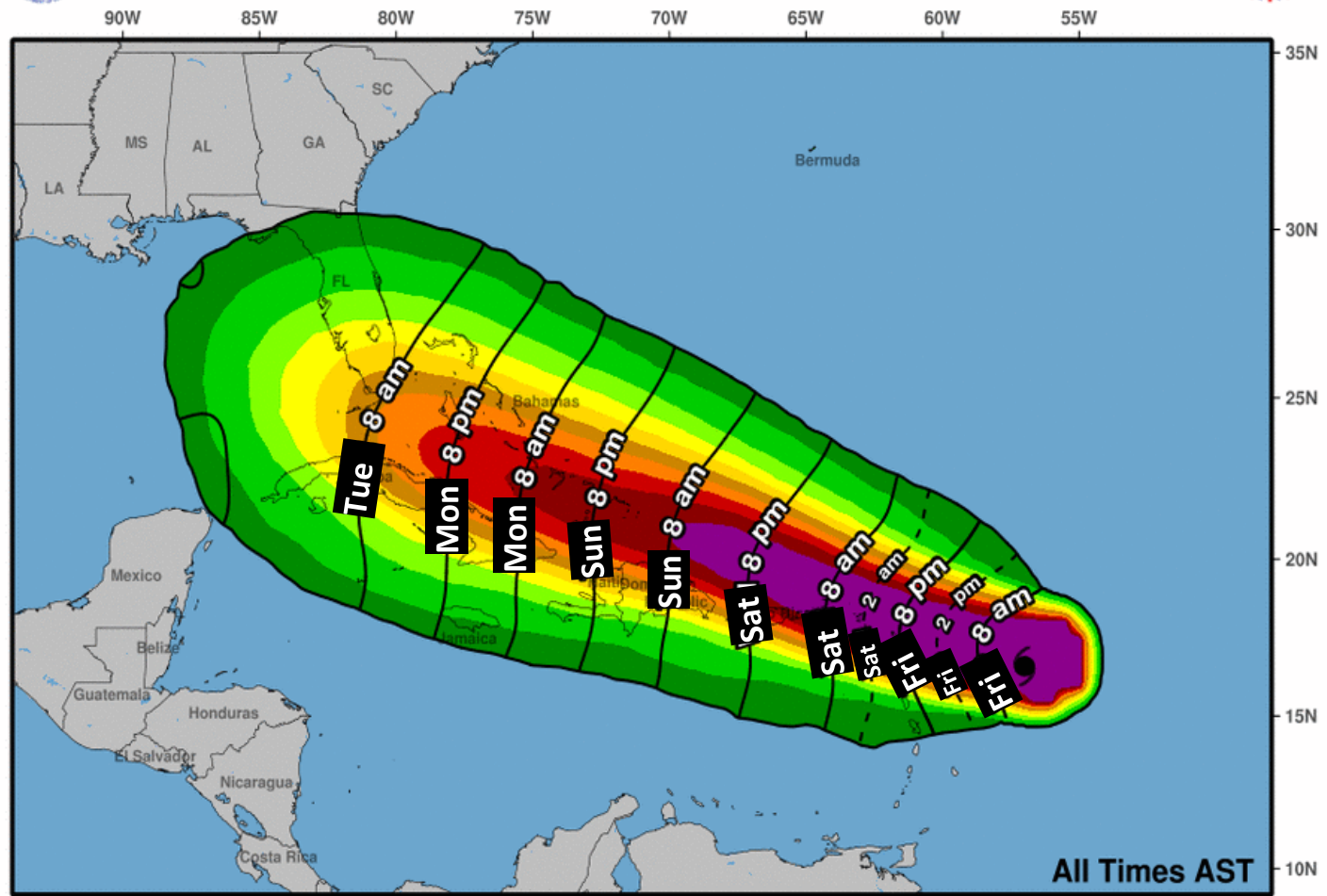


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## Hurricane Lisa



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



- Puerto Rico: **Saturday Midday**
- South FL & Keys: **Tuesday**

- 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**  
FRI JUL 14 2023 5 am AST  
Advisory 7

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 %

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

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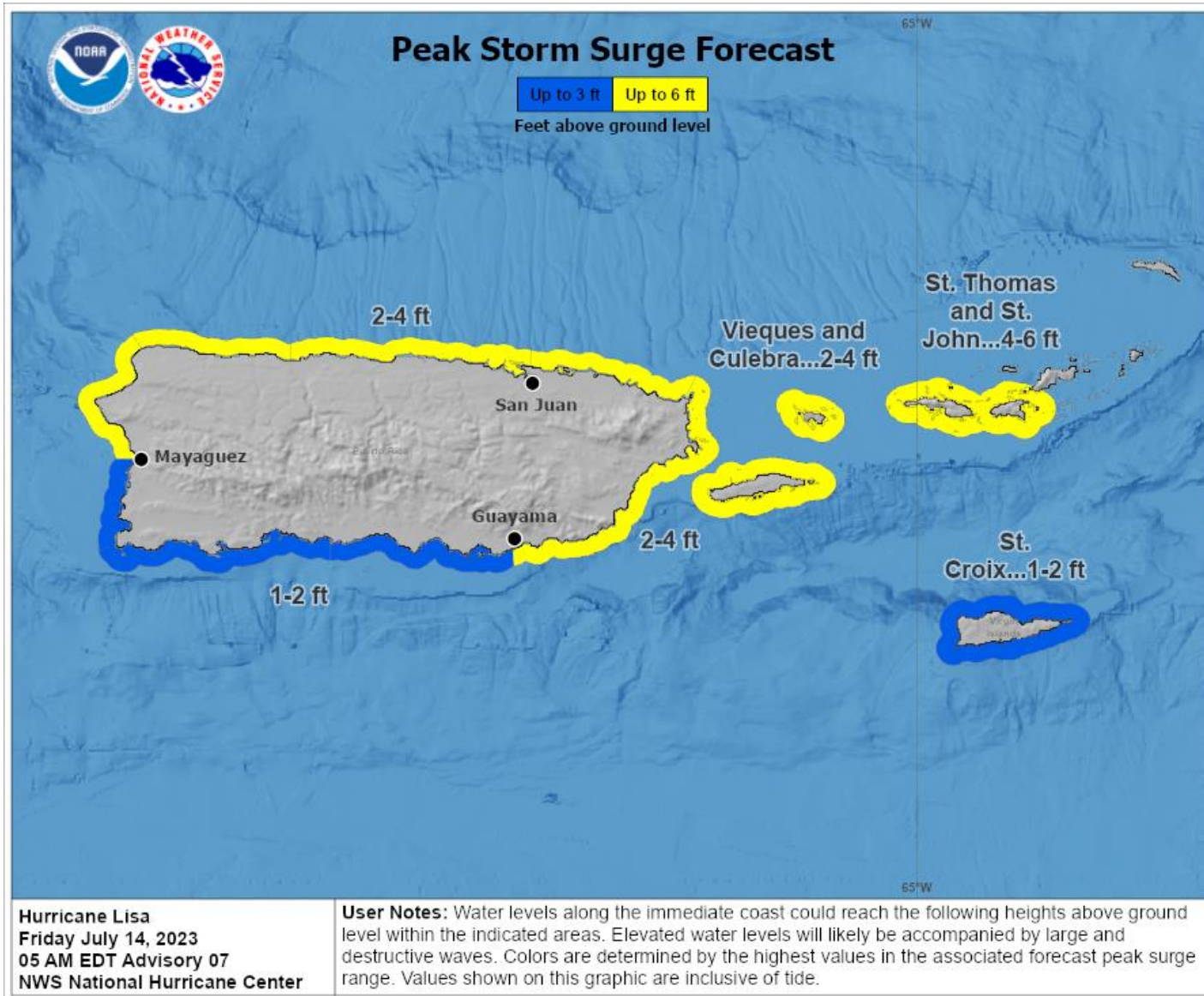
# Storm Surge

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## Hurricane Lisa



- Large Waves combined with storm surge will likely lead to significant beach erosion and potentially minor structural damage along the immediate NE and N coastlines of Puerto Rico

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

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

# Expected Storm Total Rainfall

Weather Prediction Center

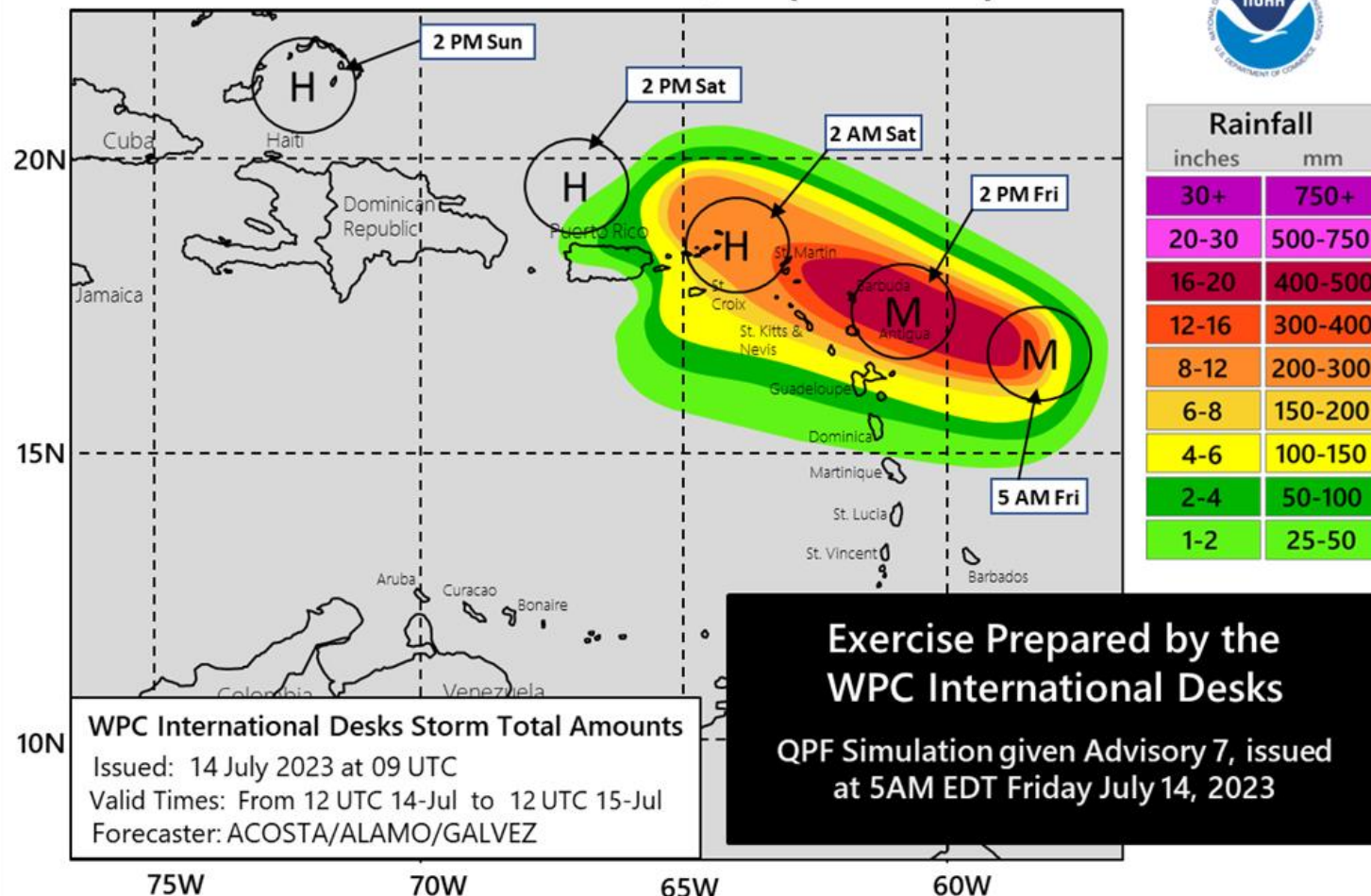
Hurricane Lisa

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



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## Hurricane Lisa 24-hr QPF (Exercise)



- Major To Extreme Flooding Rainfall is likely for Puerto Rico and the U.S. Virgin Islands
- These rains are likely to lead to life-threatening flash flooding and mudslides, especially for northeastern and interior portions of Puerto Rico.

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

www.nhc.noaa.gov

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





## Hurricane Lisa

- Seas will build to 35 ft north of Puerto Rico on Sat with dangerous surf conditions

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