

**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

Sat July 15, 2023 – 9am EDT



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



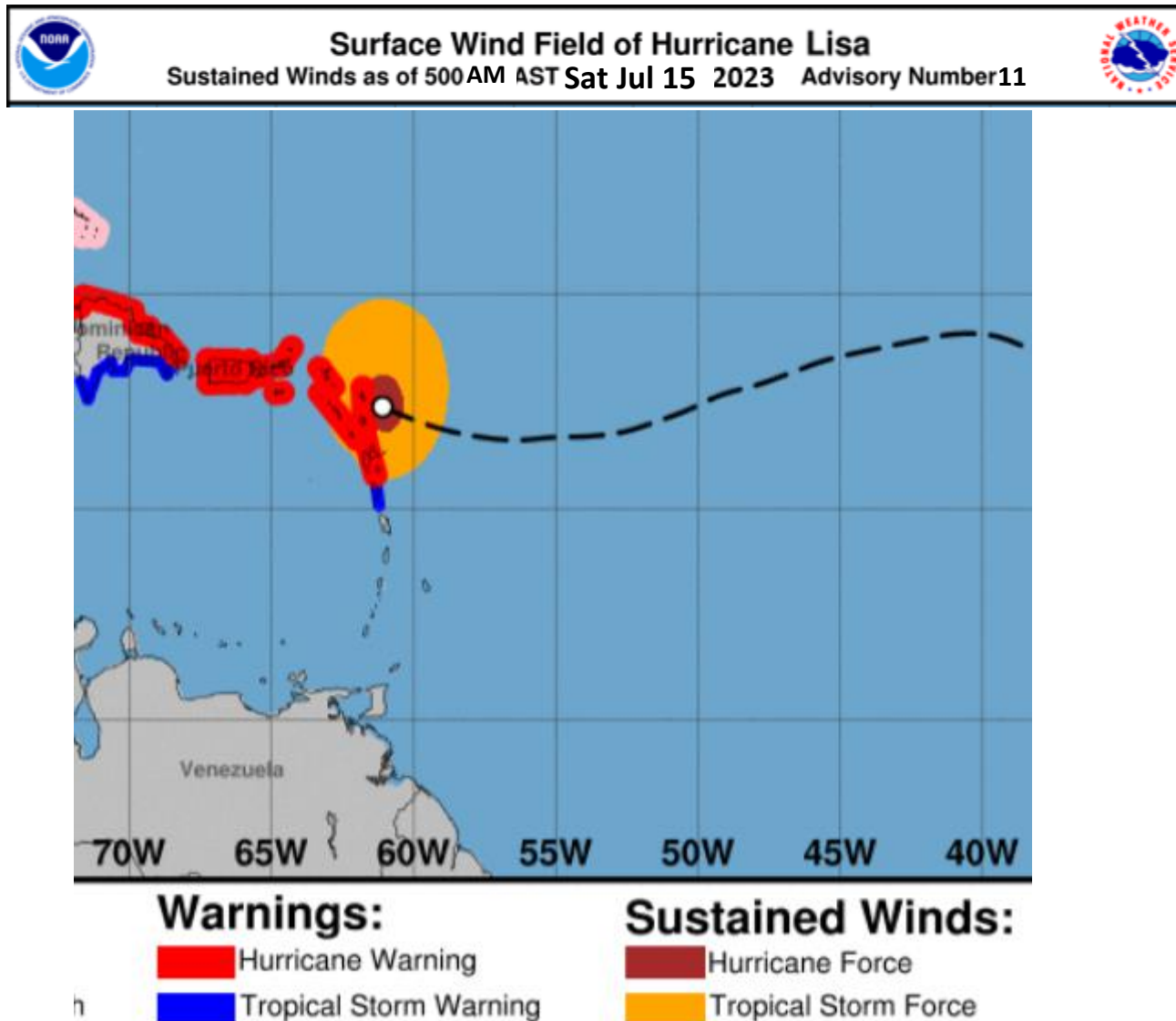
# Situation Overview

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



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NWS National Hurricane Center

Hurricane Lisa



## ...Lisa About to Move Over Northern Leeward Islands...

Summary of 500 AM EDT Information

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Location... 17.4N 61.1W

About 35 nm...ESE of Barbuda

About 285 nm...ESE of San Juan, PR

Maximum Sustained Winds...110 kt

Present Movement...WNW at 13 kt

Size

34 kt...140 NE 110 SE 80 SW 130 NW

Seas to 38 ft

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

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

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

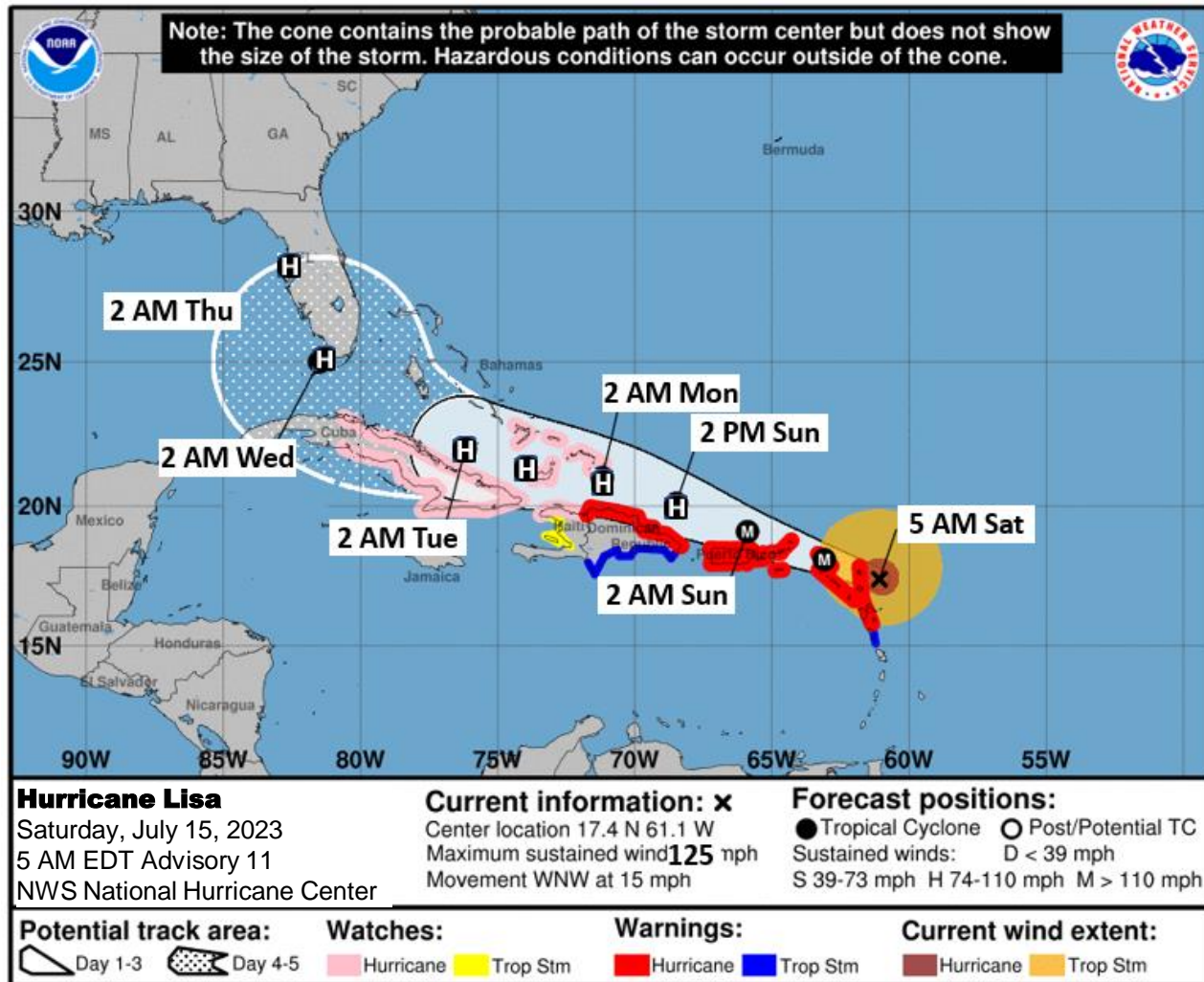
# Forecast Information

## Hurricane Lisa

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

- Lisa will move over the northern Leeward Islands today, and approach Puerto Rico this evening as a major hurricane.
- Lisa is expected to continue moving WNW, staying near, or just north of, the Greater Antilles through Tue and potentially impact Florida by mid-week
- The risk for hurricane force winds and a dangerous storm surge for portions of Florida is increasing, but it's too early to determine the location and magnitude of those impacts.
- Lisa is forecast to remain a hurricane into the middle of next week

- 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.

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

# T.S. Wind Speed Probabilities

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Hurricane Lisa



## Tropical-Storm-Force Wind Speed Probabilities

For the 120 hours (5.00 days) from 2 AM AST SAT JUL 15 to 2 AM AST THU JUL 20



Probability of tropical-storm-force winds (1-minute average  $\geq 39$  mph) from all tropical cyclones  
○ indicates Hurricane Lisa center location at 2 AM AST SAT JUL 15 2023 (Forecast/Advisory #11)



- Ponce 80% ( $\pm 0\%$ )
- San Juan PR 100% ( $\pm 0\%$ )
- Aguadilla, PR 90% ( $\pm 0\%$ )
- Vieques 100% ( $\pm 0\%$ )
- St. Croix 95% ( $\pm 0\%$ )
- St. Thomas 100% ( $\pm 0\%$ )

- Tampa 45% (+15%)
- Key West 60% (+10%)
- Miami 60% (+10%)
- Opa Locka 55% (+5%)
- Ft Lauderdale 55% (+5%)

- 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\*\***

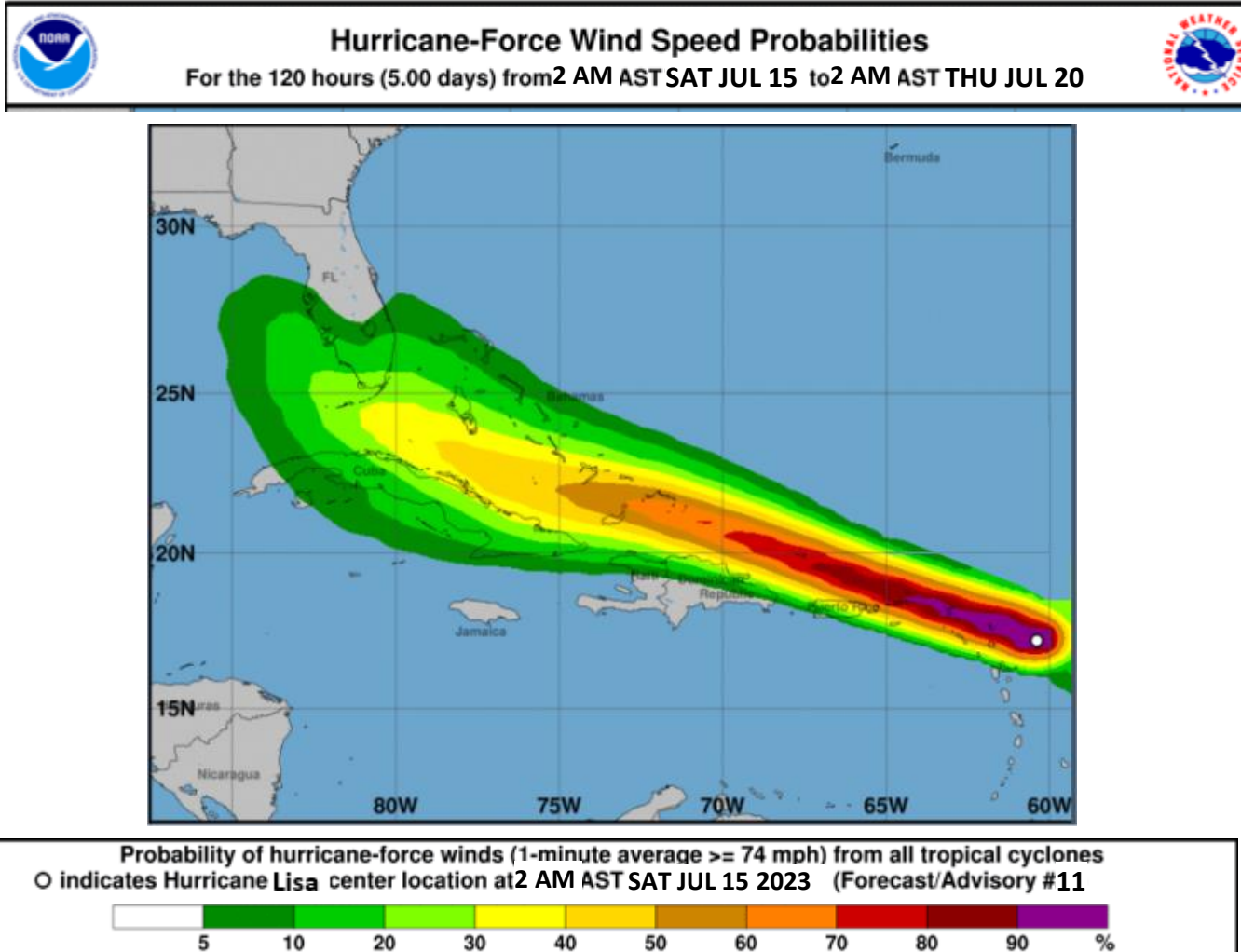


# Hurricane Wind Speed Probabilities **\*\*EXERCISE\*\***

## Hurricane Lisa



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- Ponce 20% ( $\pm 0\%$ )
- San Juan PR 85% (+5%)
- Aguadilla, PR 50% (+5%)
- Vieques 80% (+5%)
- St. Croix 50% (+5%)
- St. Thomas 90% (+5%)

- Key West 20% ( $\pm 0\%$ )
- Miami 20% (+5%)
- Opa Locka: 20% (+10%)
- Ft Lauderdale 20% (+10%)
- Tampa 10% (+5%)

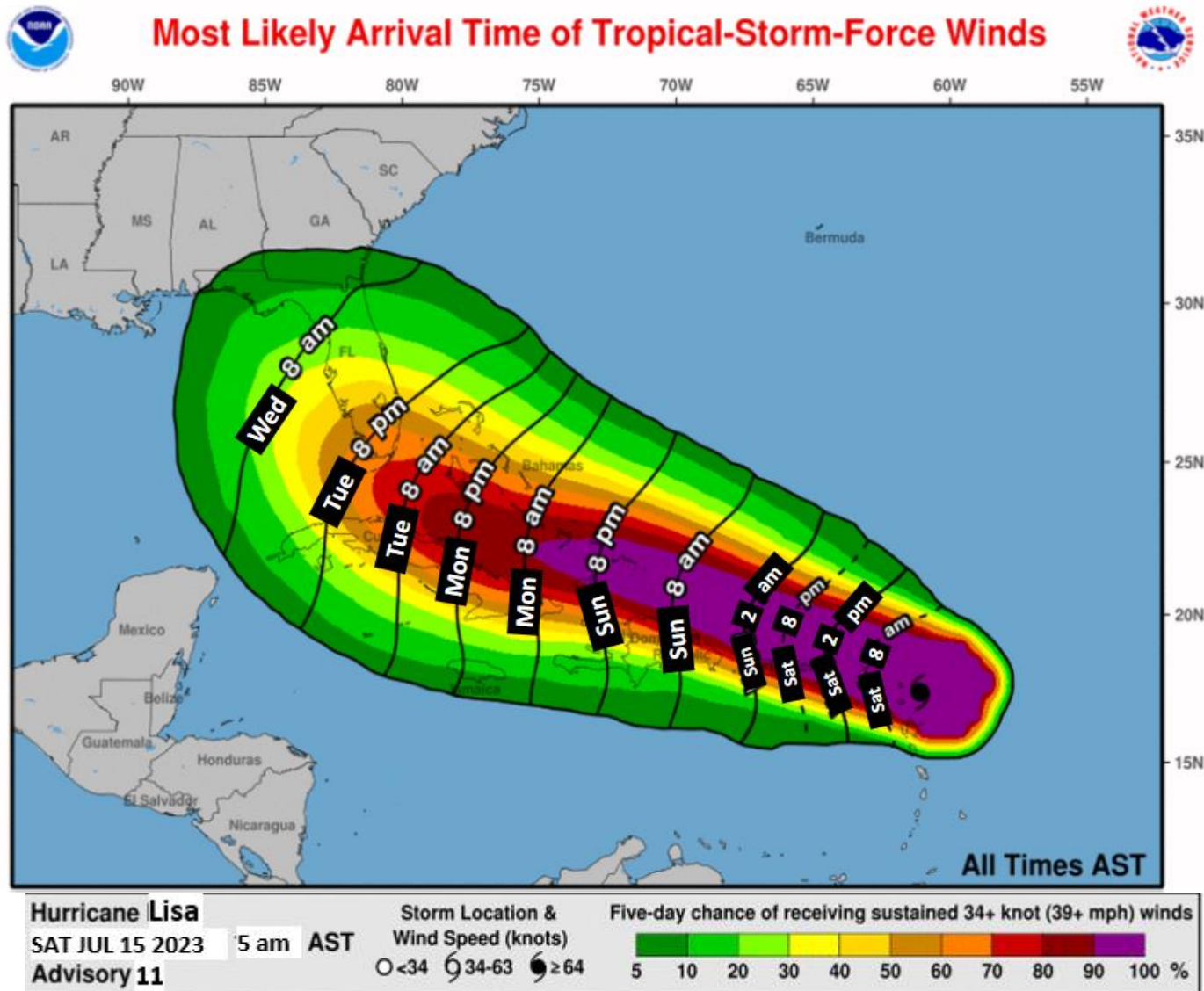
- Probabilities of sustained hurricane force winds (64 kt +) over the next 5 days, based off this cyclone's wind radii and track.

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

## Hurricane Lisa



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- Puerto Rico: **Mid-late afternoon today**
- South FL and the FL Keys: **Late Tuesday**
- 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.

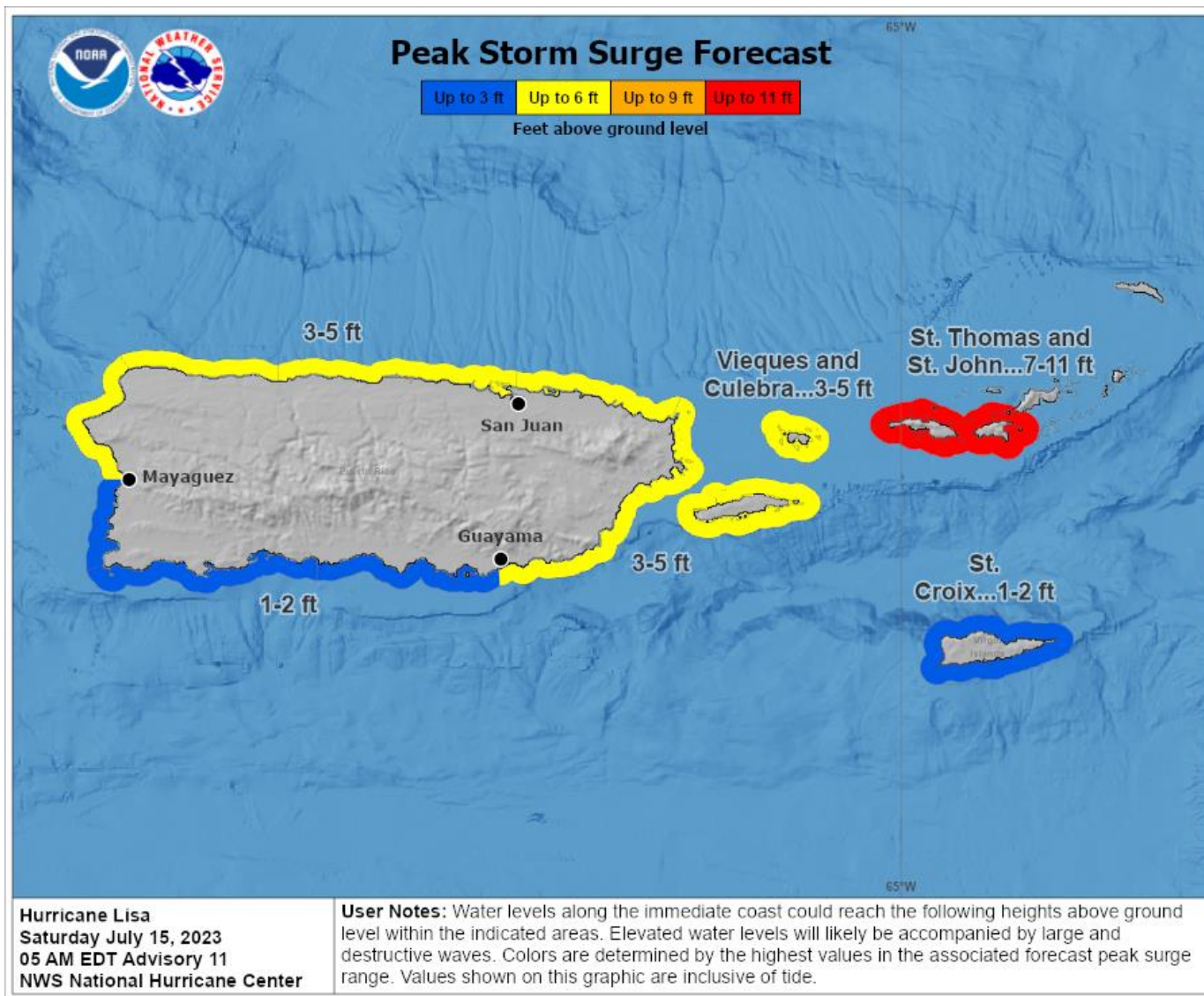
# Storm Surge

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

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

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

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



# Expected Storm Total Rainfall

Weather Prediction Center

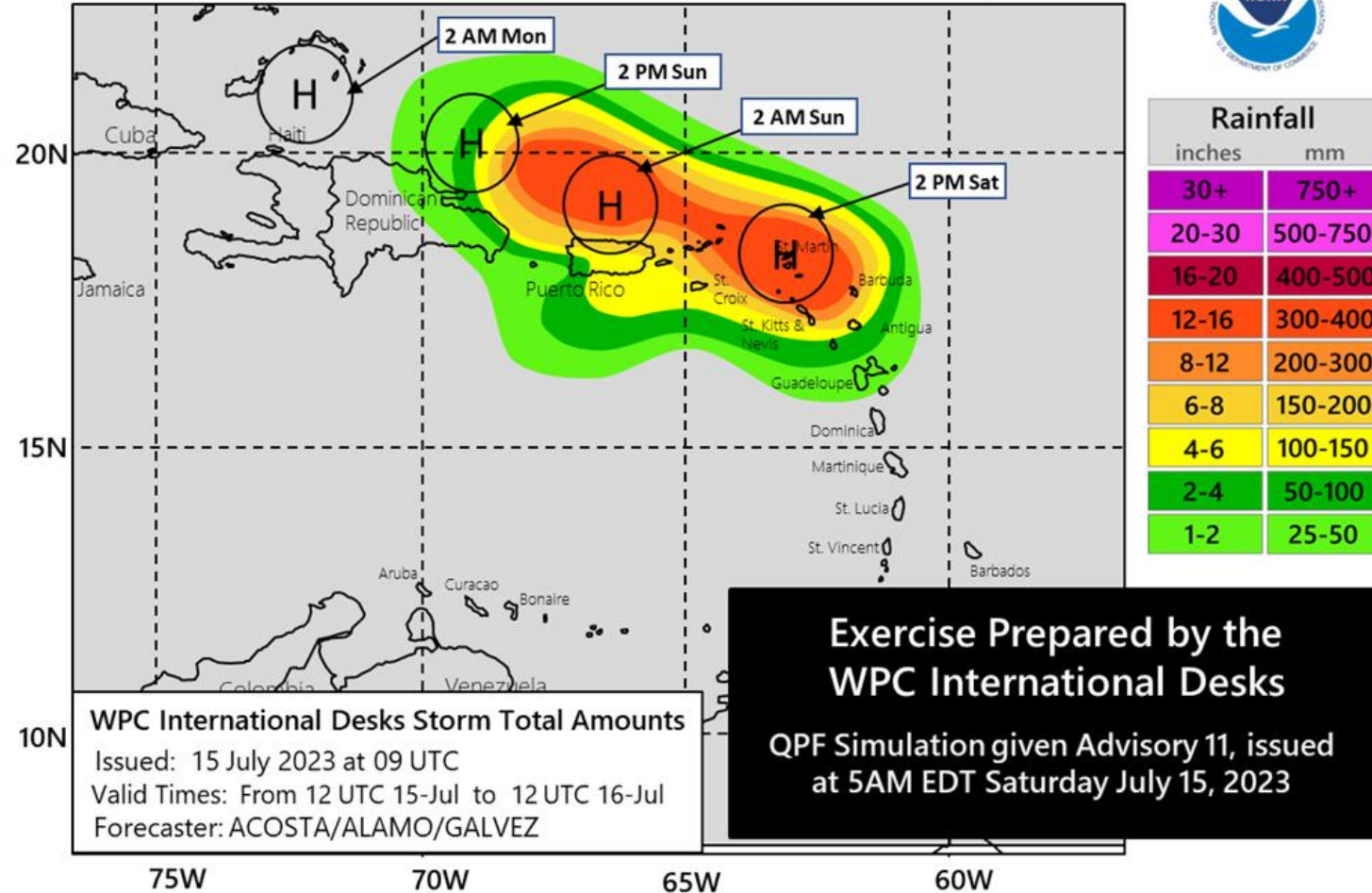
**\*\*EXERCISE\*\***



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## Hurricane Lisa

### Hurricane Lisa 24-hr QPF (Exercise)



- Major To Extreme Flooding Rainfall is expected for Puerto Rico and the U.S. Virgin Islands
- Expecting Storm Total to be 6-8" with locally higher amounts
- These rains are likely to lead to life-threatening flash flooding and mudslides, especially for northeastern and interior portions of Puerto Rico.

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

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



# Marine Key Messages

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## Hurricane Lisa

- Seas of **30-35 ft** are expected north of Puerto Rico by tonight with dangerous breaking waves along the NE and N coasts of Puerto Rico.

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

Winds – **High** to **Extreme**

Storm Surge – **Medium**

Rainfall/Flash Flooding –  
**Extreme**

Tornadoes – **Low**

Waves – **Extreme**

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

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