



TROPICAL UPDATE



5:00 AM EDT

Sunday, August 2, 2020

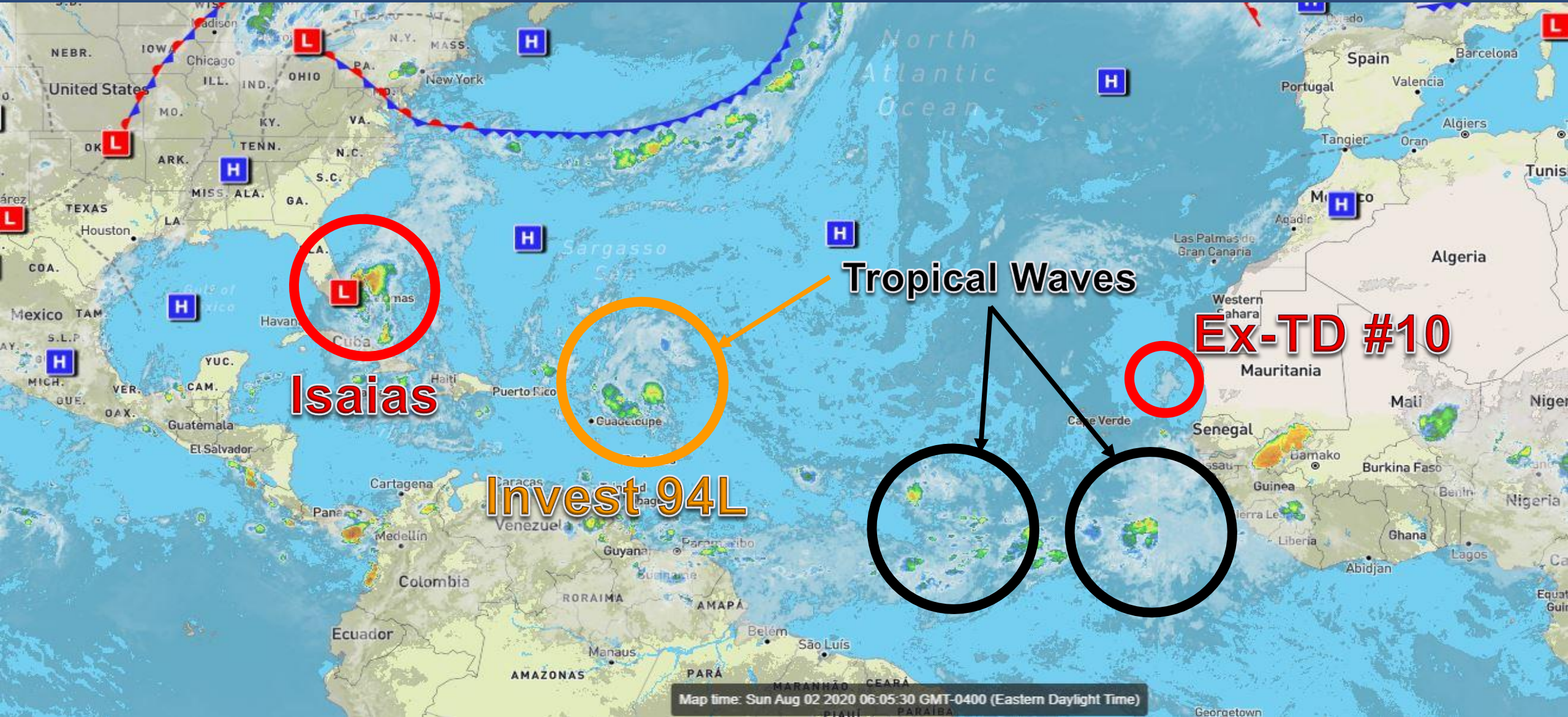
Tropical Storm Isaias &
Invest 94L (60%)

This update is intended for government and emergency response officials, and is provided for informational and situational awareness purposes only. Forecast conditions are subject to change based on a variety of environmental factors. For additional information, or for any life safety concerns with an active weather event please contact your County Emergency Management or Public Safety Office, local National Weather Service forecast office, or visit the National Hurricane Center website at www.hurricanes.gov.



Atlantic Basin Satellite Image

Chance of development: — None — Low — Medium — High





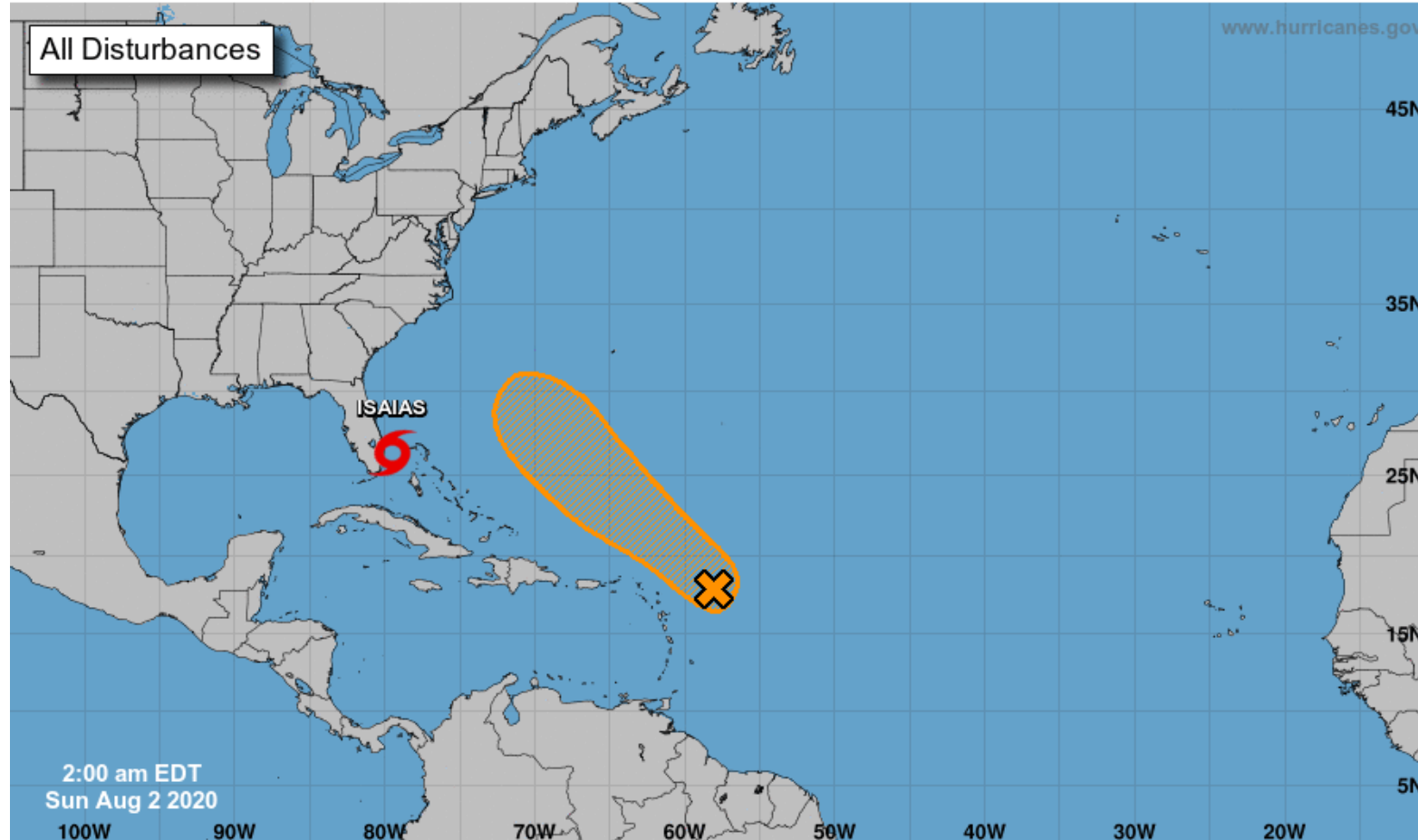
Tropical Weather Outlook

Possible Areas of Development During the Next 5 Days ([LINK](#))



Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida







Current Disturbances and Five-Day Cyclone Formation Chance: < 40% 40-60% > 60%

Tropical or Sub-Tropical Cyclone: Depression Storm Hurricane

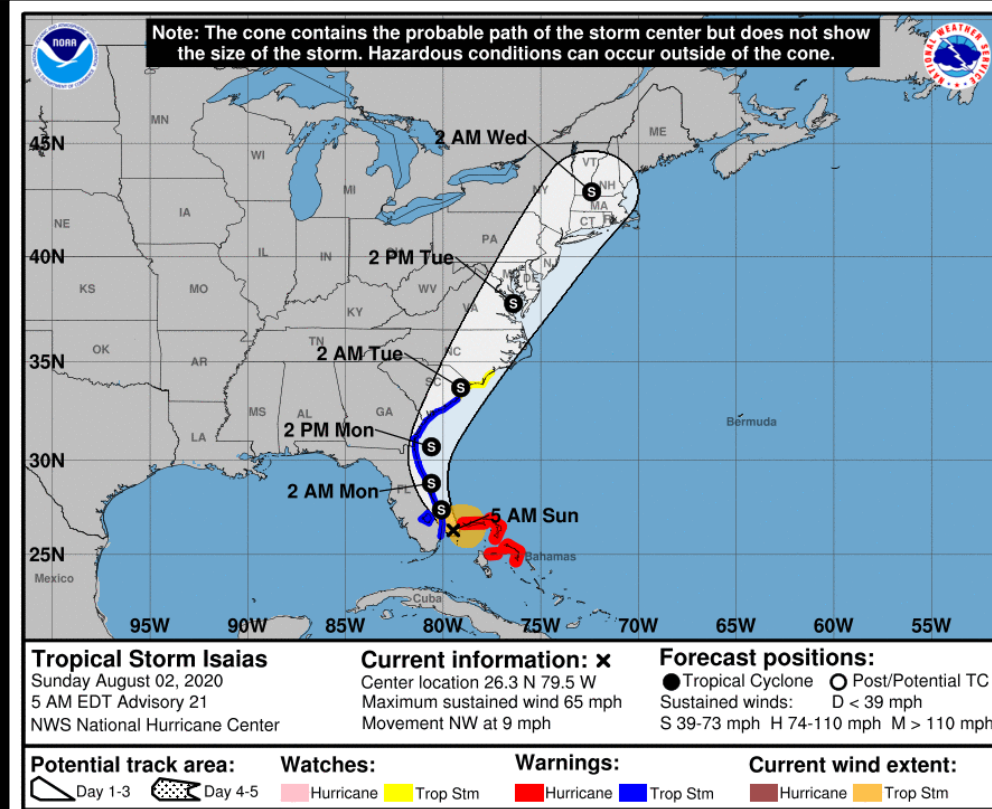
Post-Tropical Cyclone or Remnants

Tropical Storm Isaias Sunday, August 2

	MINIMAL	Low	MODERATE	HIGH	EXTREME
 WINDS					
 STORM SURGE					
 FLASH FLOODING					
 TORNADOES					

	Low	MODERATE	HIGH
 RIP CURRENTS			

National Hurricane Center Map



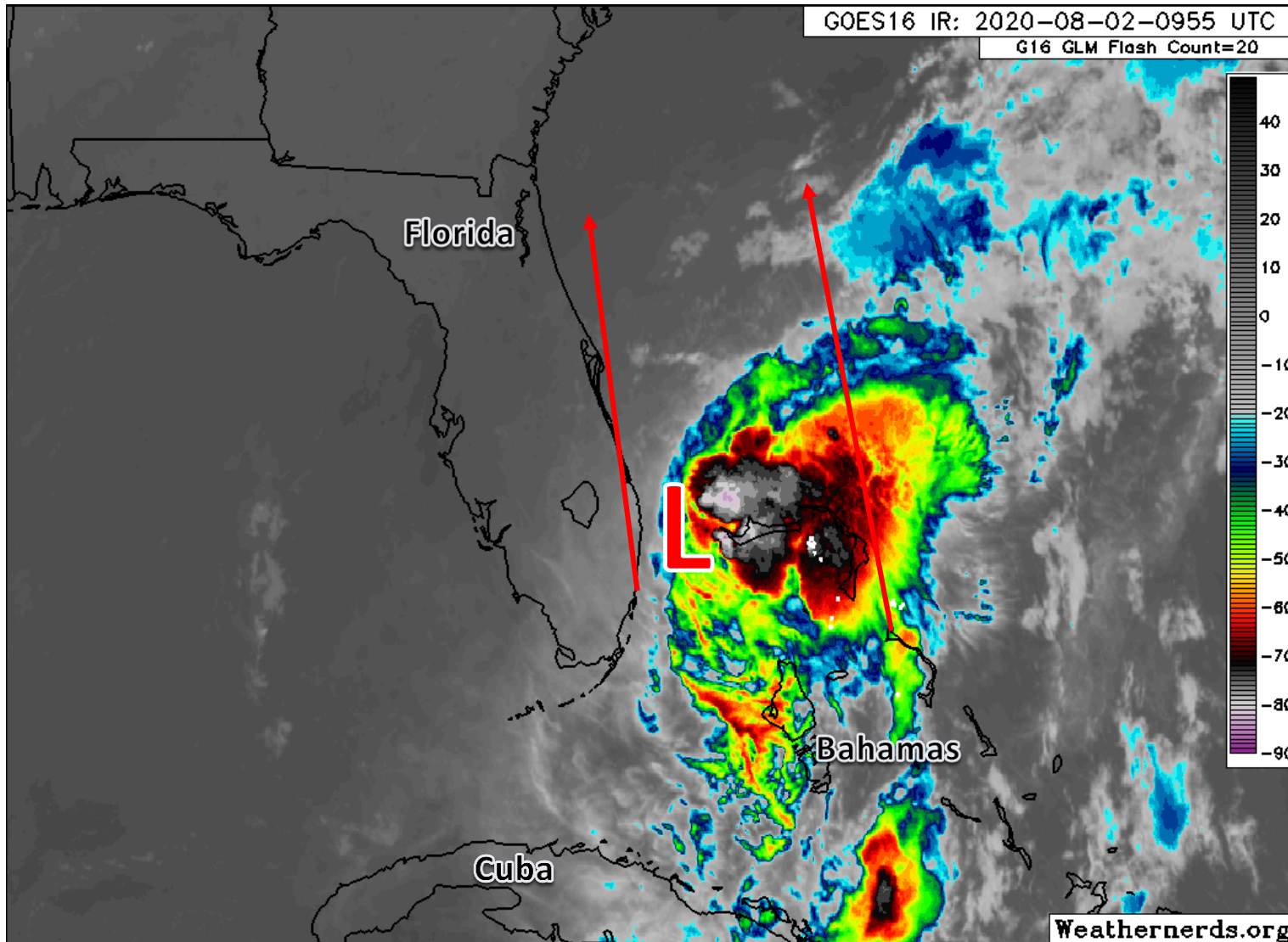
Overview/Recent Changes:

Isaias has not gained strength overnight and remains a tropical storm (65 mph) and moving to the northwest at 9 mph (slowing down). It is no longer forecast to restrengthen. The Hurricane Warnings for Florida have been **CANCELLED** and replaced with Tropical storm Warnings. Rain bands will increase today across Central Florida and Northeast Florida tonight.



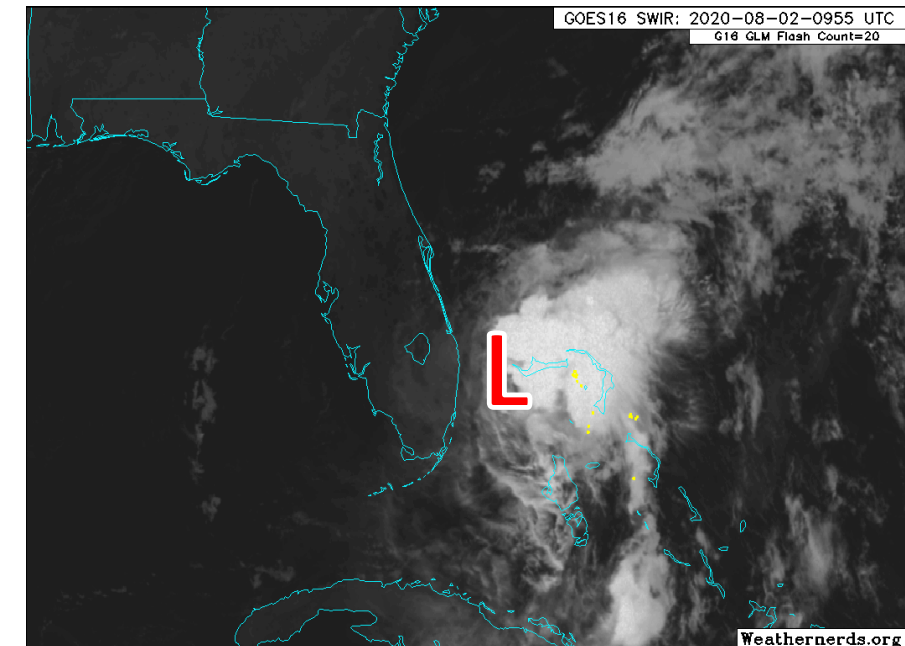
Satellite Imagery

Southwest Atlantic – Tropical Storm Isaias



Isaias has been producing thunderstorms overnight, but they have been east of the center and over the Bahamas.

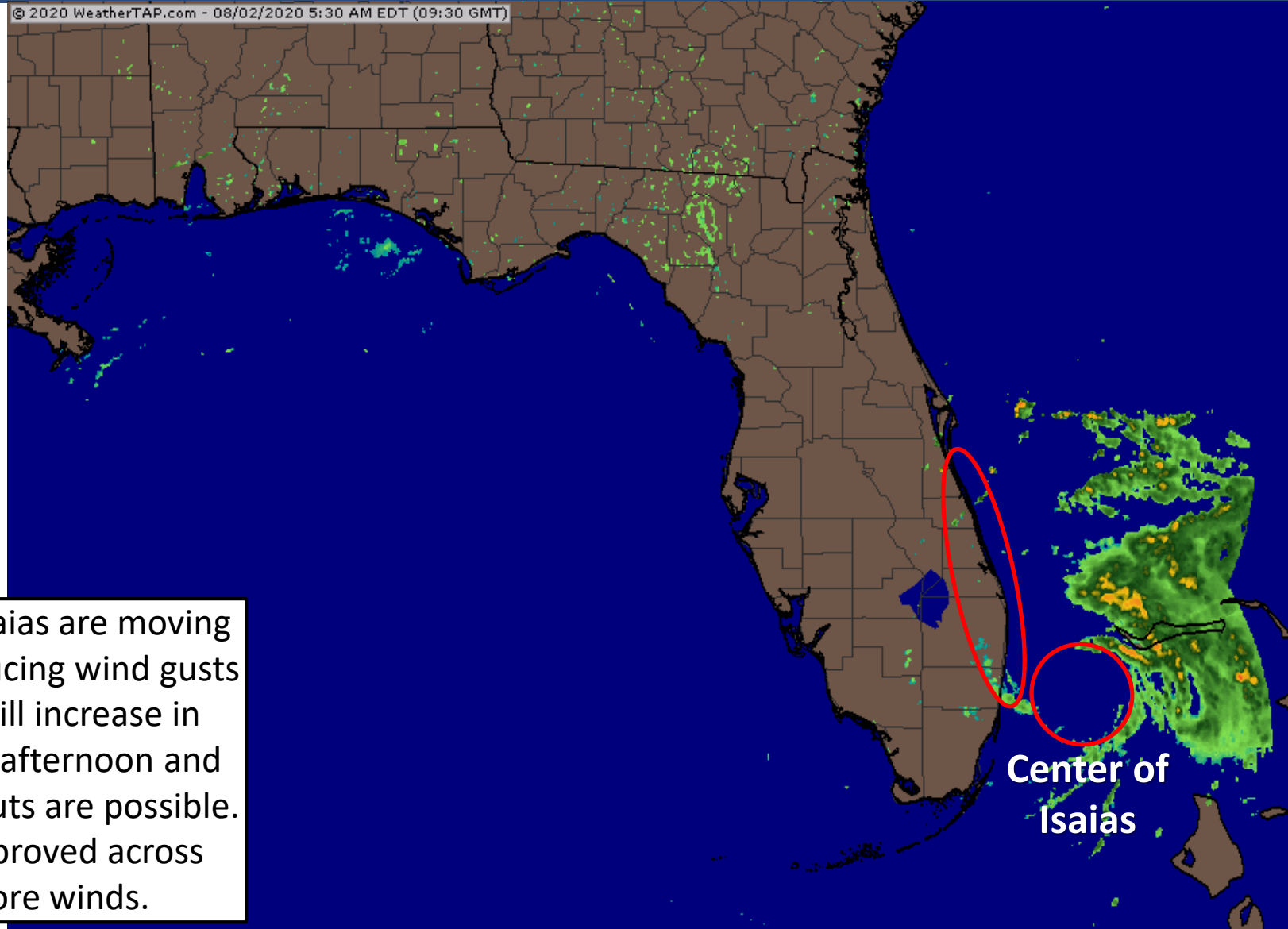
The thunderstorms (red and black colors) may try to wrap around to the west, closer to Florida today. This would need to occur to bring sustained tropical storm conditions to the coast.





Current Florida Radar

As of 5:30 AM ET / 4:30 AM CT

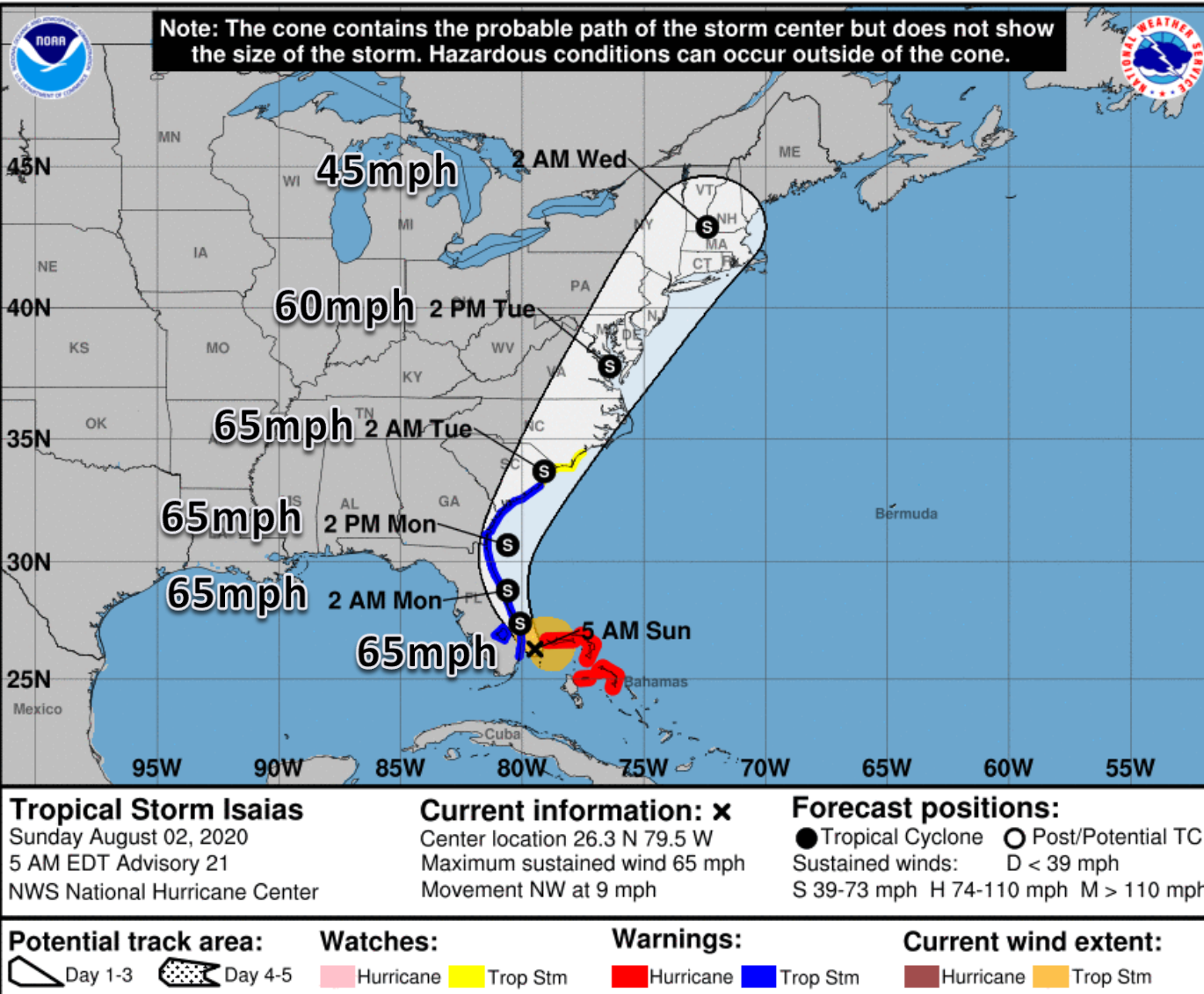


The outer rain bands from Isaías are moving into the Treasure Coast producing wind gusts around 35-50 mph. They will increase in frequency and intensity this afternoon and spread northward. Waterspouts are possible. Conditions have greatly improved across Miami-Dade with offshore winds.



Official Forecast Track

From the National Hurricane Center – Tropical Storm Isaias



- The center of Hurricane Isaias is about 45 miles east of Fort Lauderdale, moving to the NW at 9 mph.
- Isaias is disorganized, and maximum sustained winds have decreased to near 65 mph. Most of these winds are occurring in the eastern half of the storm, over the Bahamas.
- Isaias is no longer forecast to regain hurricane strength.
- The system will parallel the Florida East Coast through Monday afternoon, either just offshore or just inland.
- Tropical Storm Warnings and Storm Surge Watches remain in effect for parts of the state.

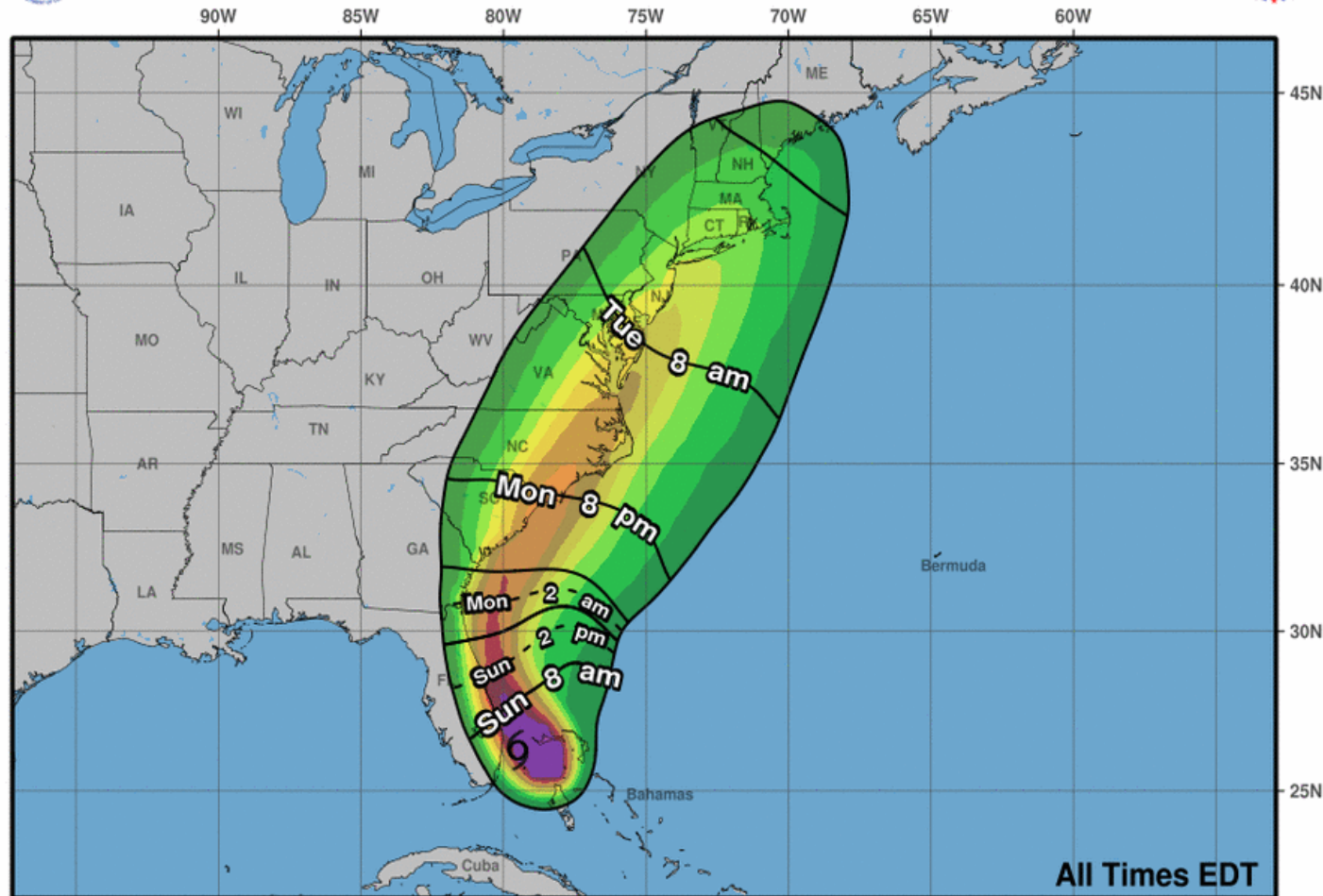


Time of Arrival & Wind Speed Probabilities

MOST LIKELY Time of Arrival of Tropical Storm Force Winds (>39 mph)



0-3 Day Earliest Reasonable Arrival Time of Tropical-Storm-Force Winds



Ft. Lauderdale: 10% (-61)
West Palm Beach: 74% (-16)
Ft. Pierce: 87% (+6)
Daytona Beach: 32% (-9)
Orlando: 13% (-17)
Jacksonville: 10% (-7)

The most likely chance of tropical storm force winds starting will be now through this afternoon in East Central Florida, and tonight (generally after midnight) in Northeast Florida.

Tropical Storm Isaias
Sun. Aug. 2, 2020 5 am EDT
Advisory 21

Storm Location ○ < 34 kt (39 mph)
& ○ 34-63 kt (39-73 mph)
Wind Speed ● ≥ 64 kt (74 mph)

3-day chance of receiving sustained 34+ kt (39+ mph) winds

5 10 20 30 40 50 60 70 80 90 100 %



Damaging Wind Threat Overview

Hurricane Isaias

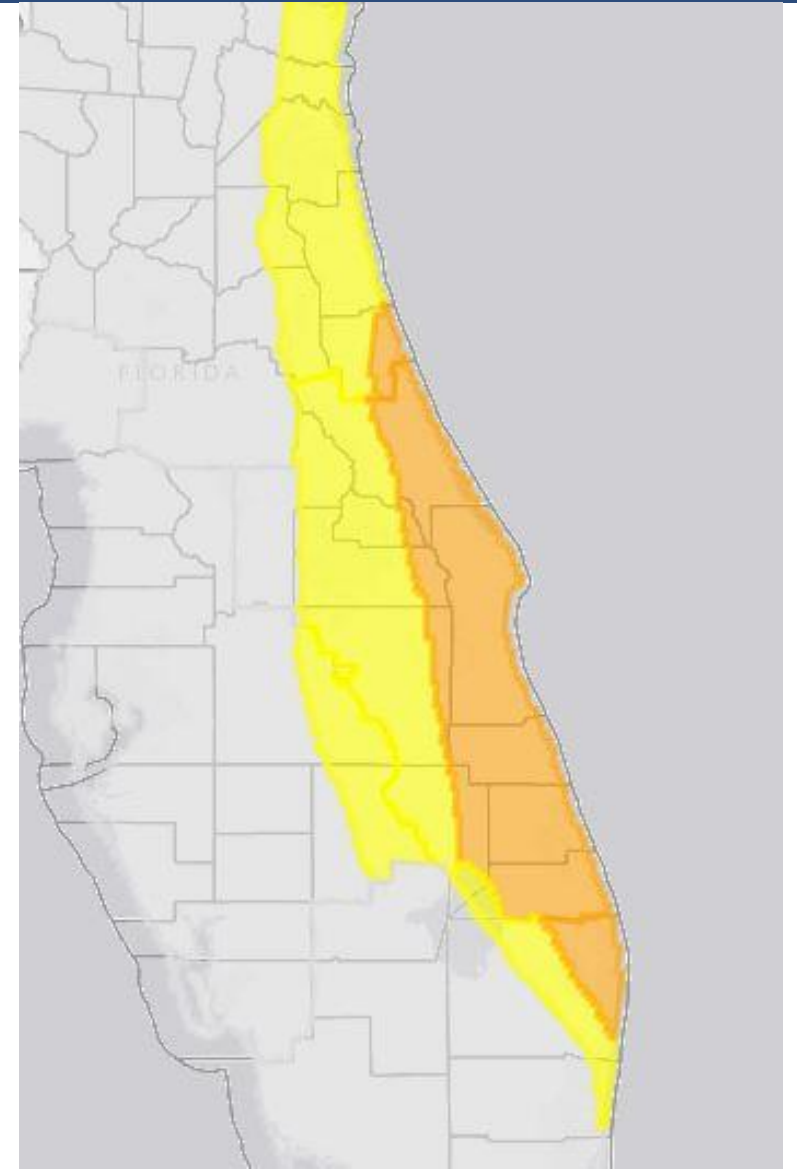
The greatest wind threat is along the immediate coast (Space & Treasure Coast) of the Peninsula, mainly along I-95.

Higher gusts to 70 mph may be possible this afternoon through tomorrow as Isaias makes its closest approach.

<https://www.weather.gov/srh/tropical?office=mfl>

Click on “Threats and Impacts” Tab

Wind Threat
Potential for wind greater than 110 mph
Potential for wind 74 to 110 mph
Potential for wind 58 to 73 mph
Potential for wind 39 to 57 mph
Wind less than 39 mph





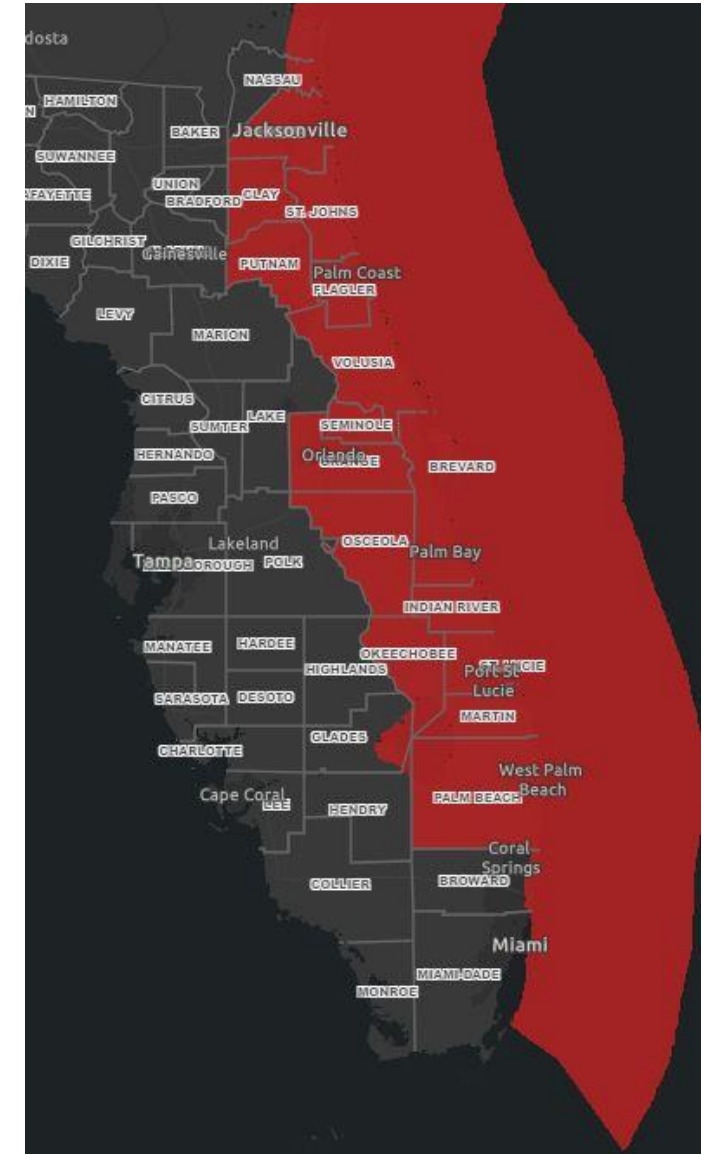
Wind Watches and Warnings

In Effect Until Further Notice

Tropical Storm Warnings are in effect for:
coastal Nassau, Duval, Clay, Putnam, St.
Johns, Flagler, Volusia, Seminole, Orange,
Osceola, Brevard, Indian River, St. Lucie,
Okeechobee, Martin, Palm Beach, and
coastal Broward.

(Tropical Storm conditions LIKELY)

Hurricane Warnings have been CANCELLED!



Tropical Storm & Hurricanes

Watches Versus Warnings

WATCH

Tropical storm and/or hurricane conditions are **POSSIBLE** in Watch area

Issued up to 48 hours in advance of tropical storm force winds

WARNING

Tropical storm and/or hurricane conditions are **EXPECTED** in Warning area

Issued up to 36 hours in advance of onset of tropical storm force winds

Hurricane preparedness activities become difficult once winds reach tropical storm force. **Watches & Warnings are issued in advance of onset of tropical storm force winds, 39-73mph**



NWSMobile

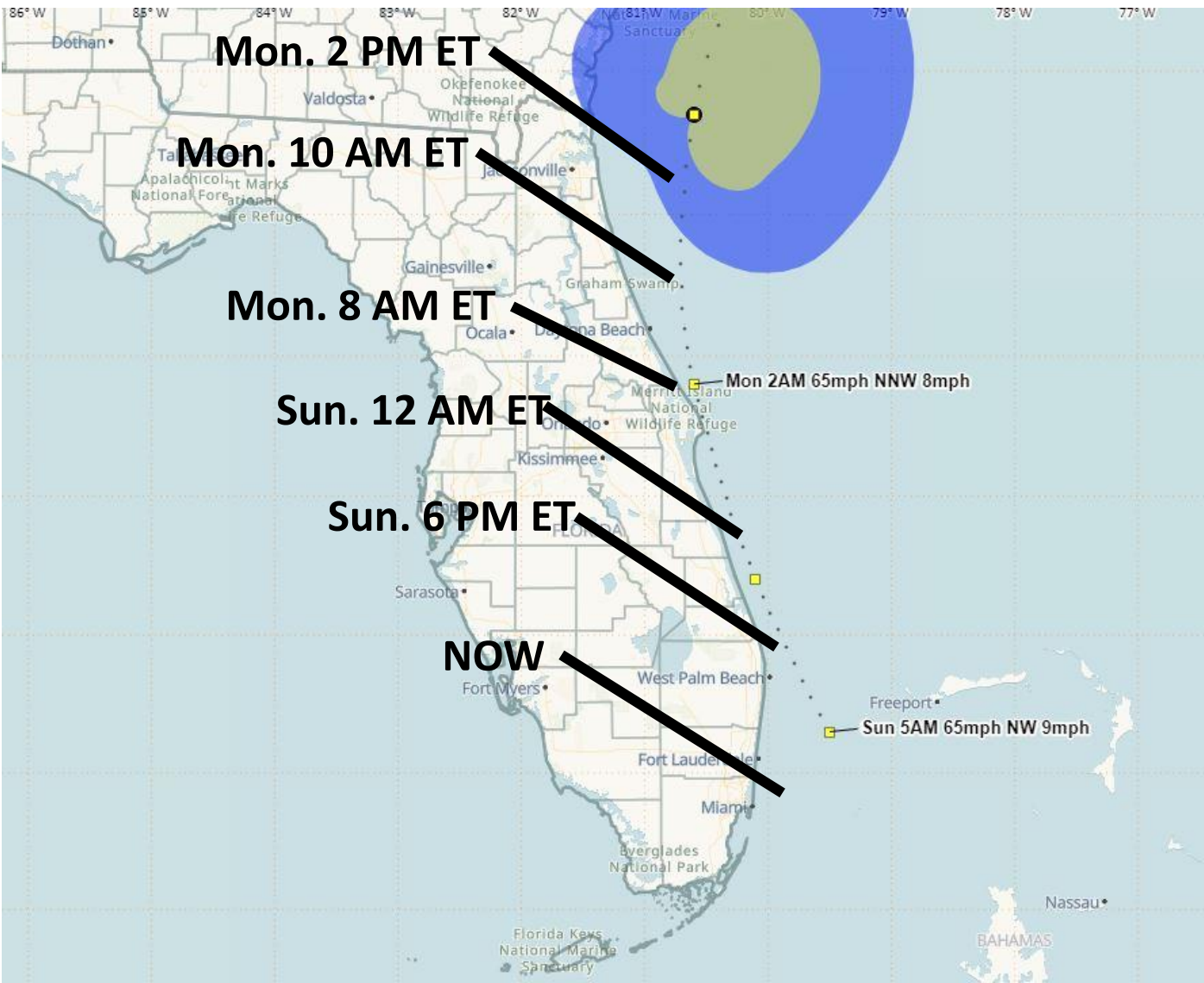


weather.gov/mob



End Time of Tropical Storm Force Winds

MOST LIKELY End Time of Winds >39 mph



Note: Assumes a perfect forecast. Winds will come in intermittent bands.

Conditions should improve in South Florida this morning, through the Treasure Coast this evening, Space Coast overnight into Monday morning, and Northeast Florida by Monday afternoon.

Latest Reasonable Departure of Tropical Storm Force Winds could be as late as Monday evening in Northeast Florida.



Storm Surge Threat Overview

Hurricane Isaias

Only minor coastal flooding is expected in Southeast Florida and along the St. Johns River in northeast Florida, as storm surge of 1-2' is forecast.

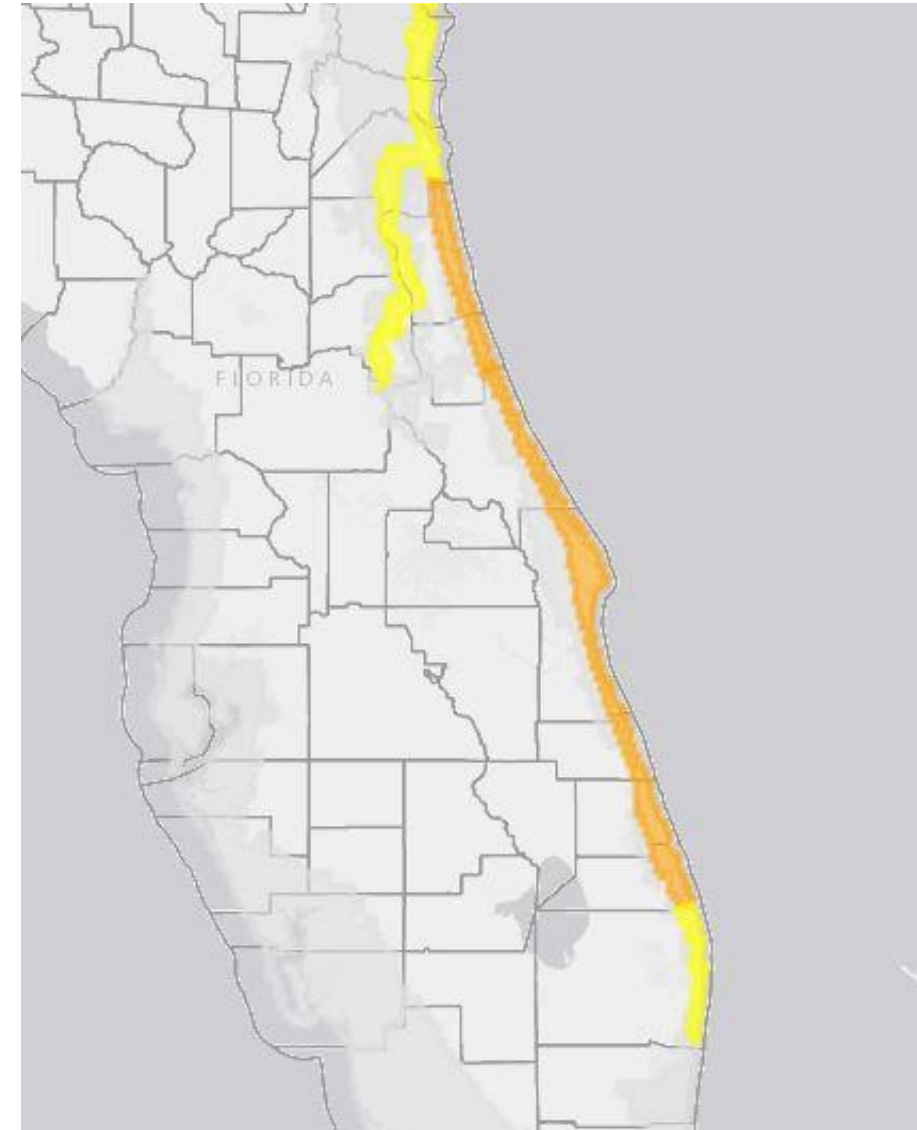
Across East-Central and Northeast Florida, from Martin to St. Johns County, 2-4' of storm surge is possible.

Storm surge watches are in effect for the areas in orange. Minor to isolated moderate coastal flooding is expected, with pockets of significant beach erosion.

Storm Surge Threat
Potential for storm surge flooding greater than 9 ft above ground
Potential for storm surge flooding greater than 6 ft above ground
Potential for storm surge flooding greater than 3 ft above ground
Potential for storm surge flooding greater than 1 ft above ground
Little to no storm surge flooding

<https://www.weather.gov/srh/tropical?office=mfl>

Click on "Threats and Impacts" Tab





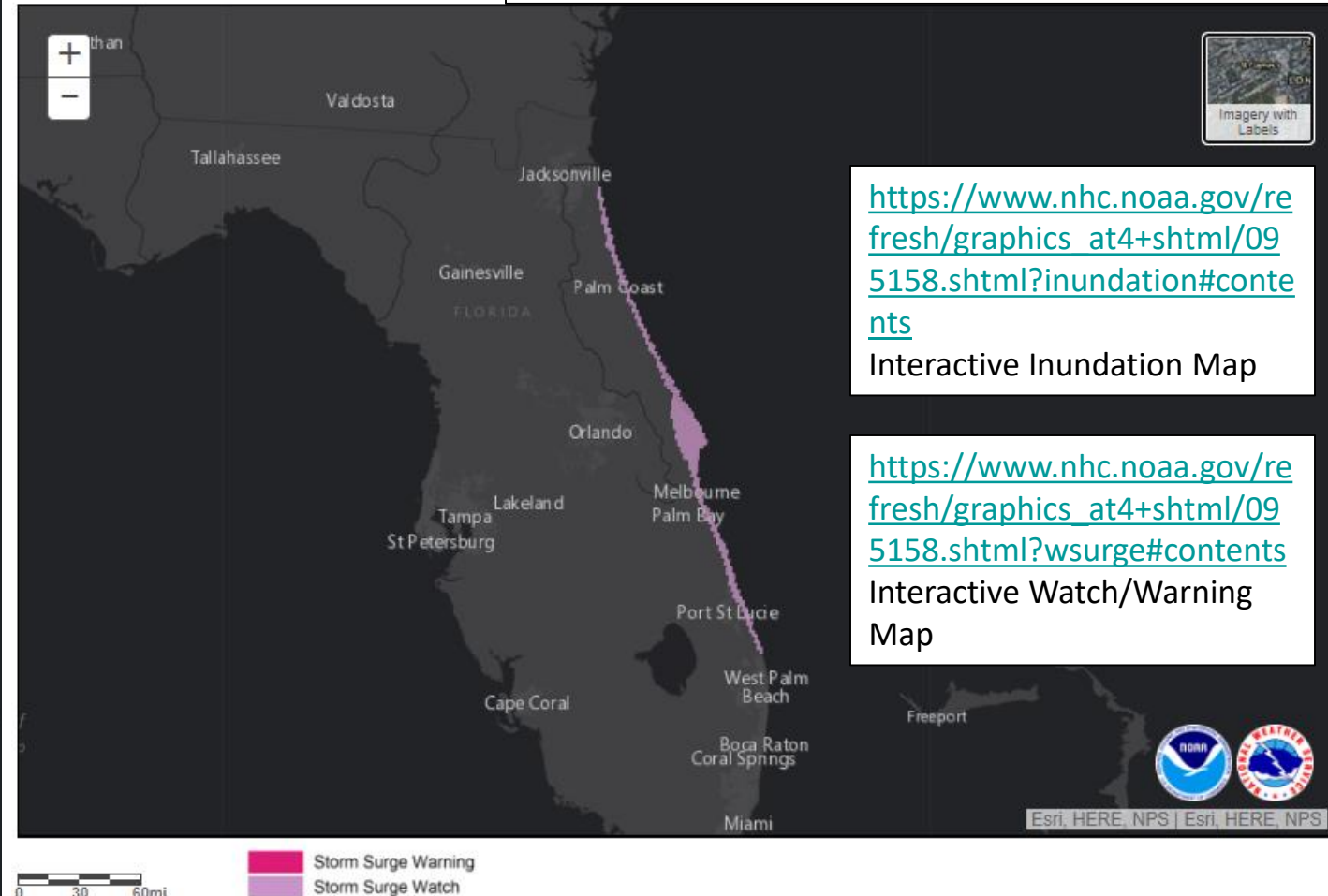
Surge Watches and Warnings

In Effect Until Further Notice

Storm Surge Watches are in effect from Jupiter Inlet to Ponte Vedra Beach.

Hurricane Isaias
Advisory 015 Issued: 5:00 PM EDT Fri Jul 31

**Coastal Flood
Advisory:** coastal
Nassau, Duval, Clay,
Putnam, coastal Palm
Beach (1-2' water rise)



https://www.nhc.noaa.gov/refresh/graphics_at4+shtml/095158.shtml?inundation#contents

Interactive Inundation Map

https://www.nhc.noaa.gov/refresh/graphics_at4+shtml/095158.shtml?wsurge#contents

Interactive Watch/Warning Map

Storm Surge Warning

There is a **danger of life-threatening inundation** from rising water moving inland from the shoreline generally **within 36 hours**.

Promptly follow evacuation and other instructions from local officials.

Storm Surge Watch

There is a **possibility of life-threatening inundation** from rising water moving inland from the shoreline generally **within 48 hours**.

Promptly follow evacuation and other instructions from local officials.

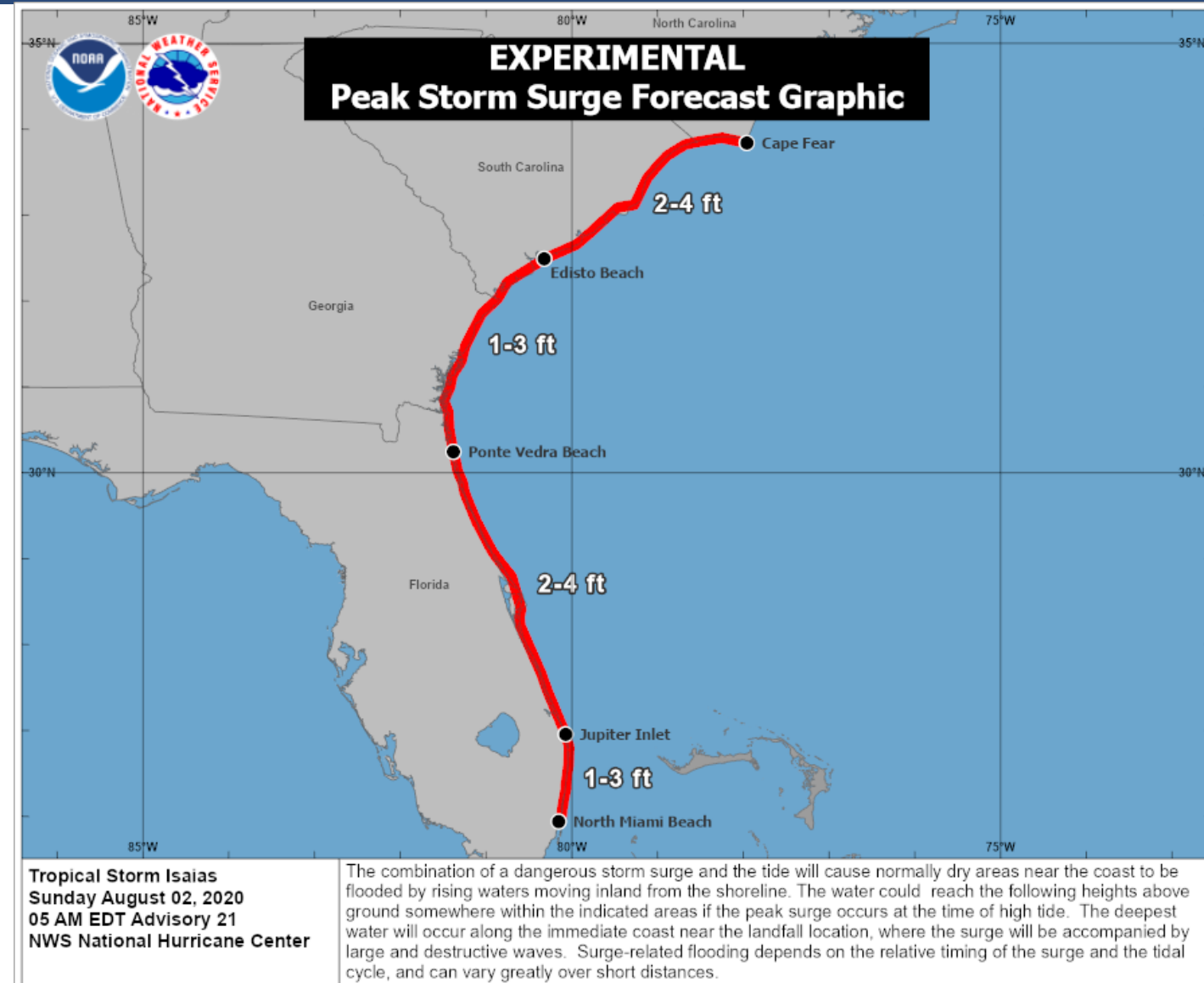




Storm Surge/Coastal Flooding

Next 48 Hours

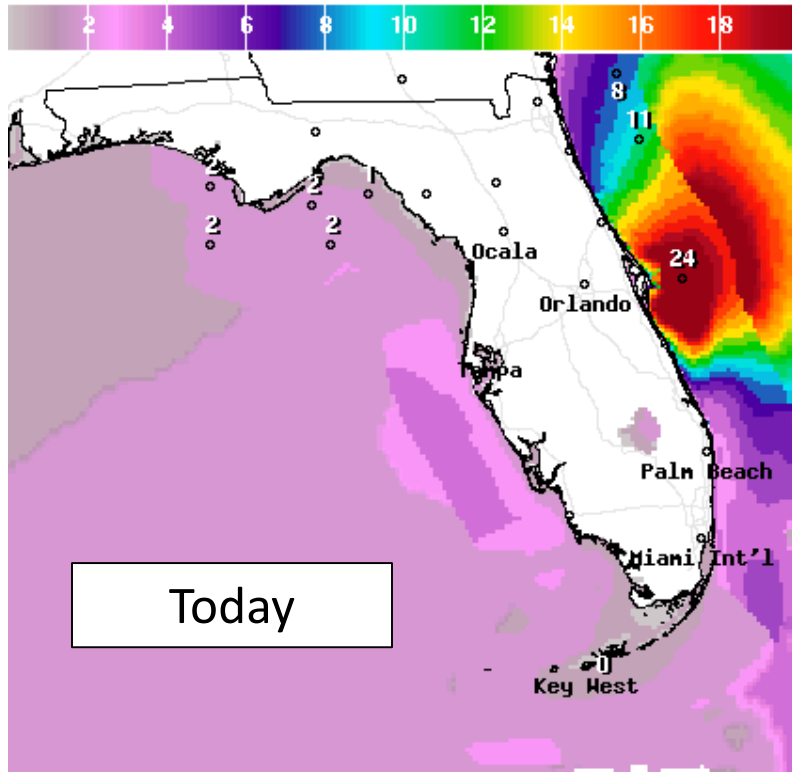
Onshore winds associated with Isaias will result in some minor coastal flooding along the Gulf Coast along with high surf. 2-4' of storm surge is expected along much of the East Coast of Florida with 1-3' in far Northeast Florida and Southeast Florida.





Forecast Wave Heights

This Weekend

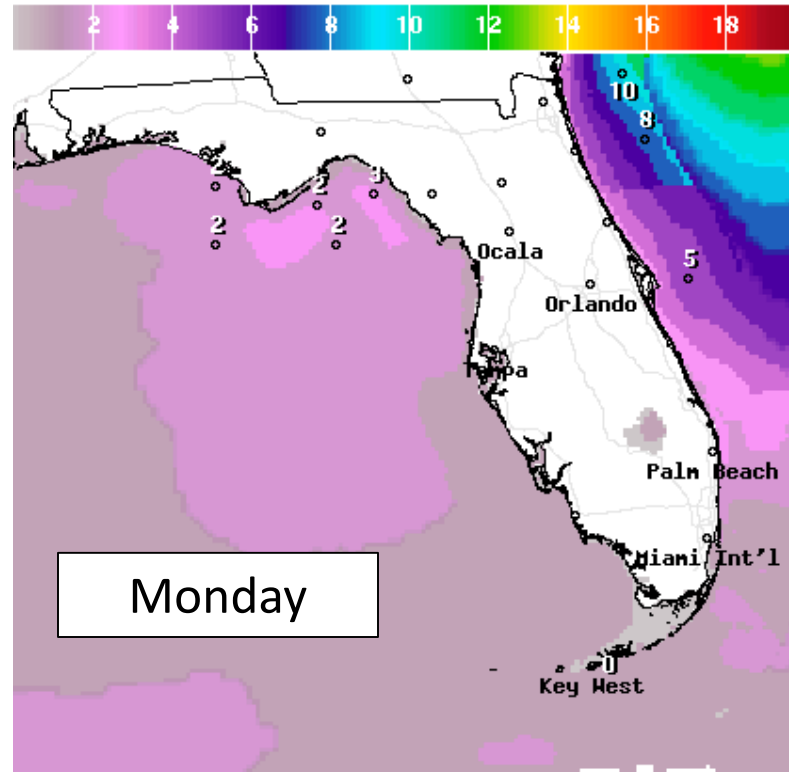


Wave Height(ft) Ending Sun Aug 02 2020 8PM EDT
(Mon Aug 03 2020 00Z)



National Digital Forecast Database

10z issuance Graphic created-Aug 02 6:29AM EDT

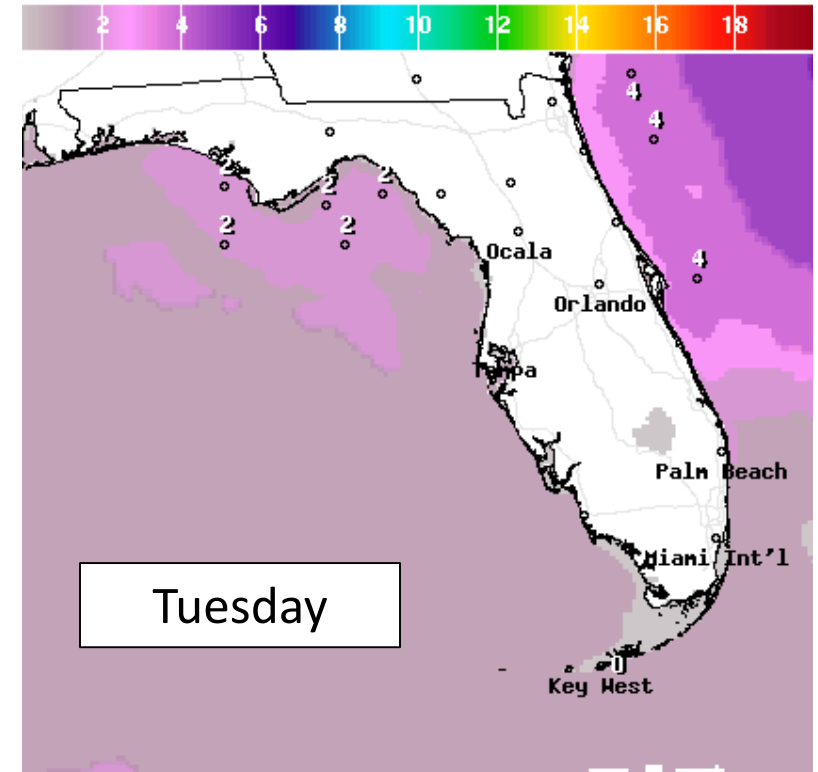


Wave Height(ft) Ending Mon Aug 03 2020 8PM EDT
(Tue Aug 04 2020 00Z)



National Digital Forecast Database

10z issuance Graphic created-Aug 02 6:30AM EDT



Wave Height(ft) Ending Tue Aug 04 2020 8PM EDT
(Wed Aug 05 2020 00Z)



National Digital Forecast Database

10z issuance Graphic created-Aug 02 6:32AM EDT



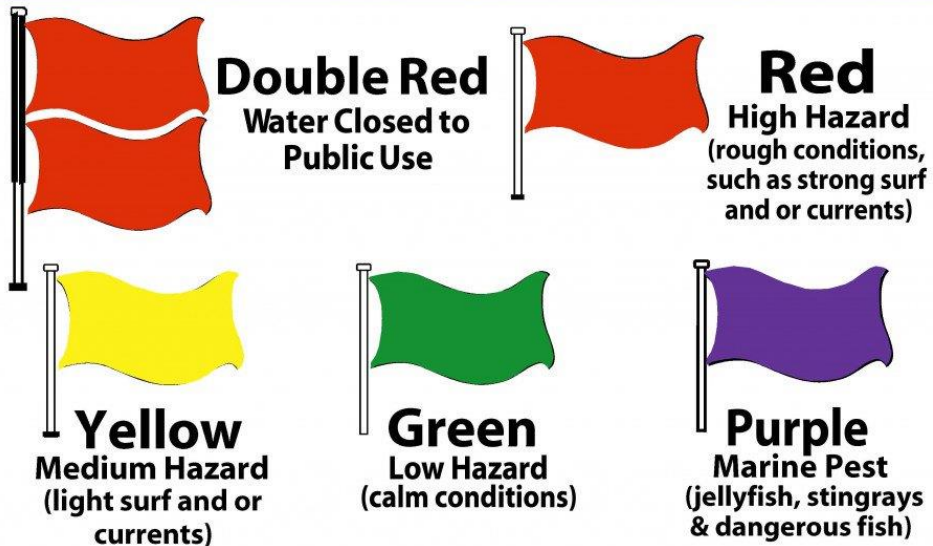
High surf of 8-12 feet is expected along East Coast beaches this weekend. This will result in dangerous rip currents. Minor to pockets of significant beach erosion is expected.



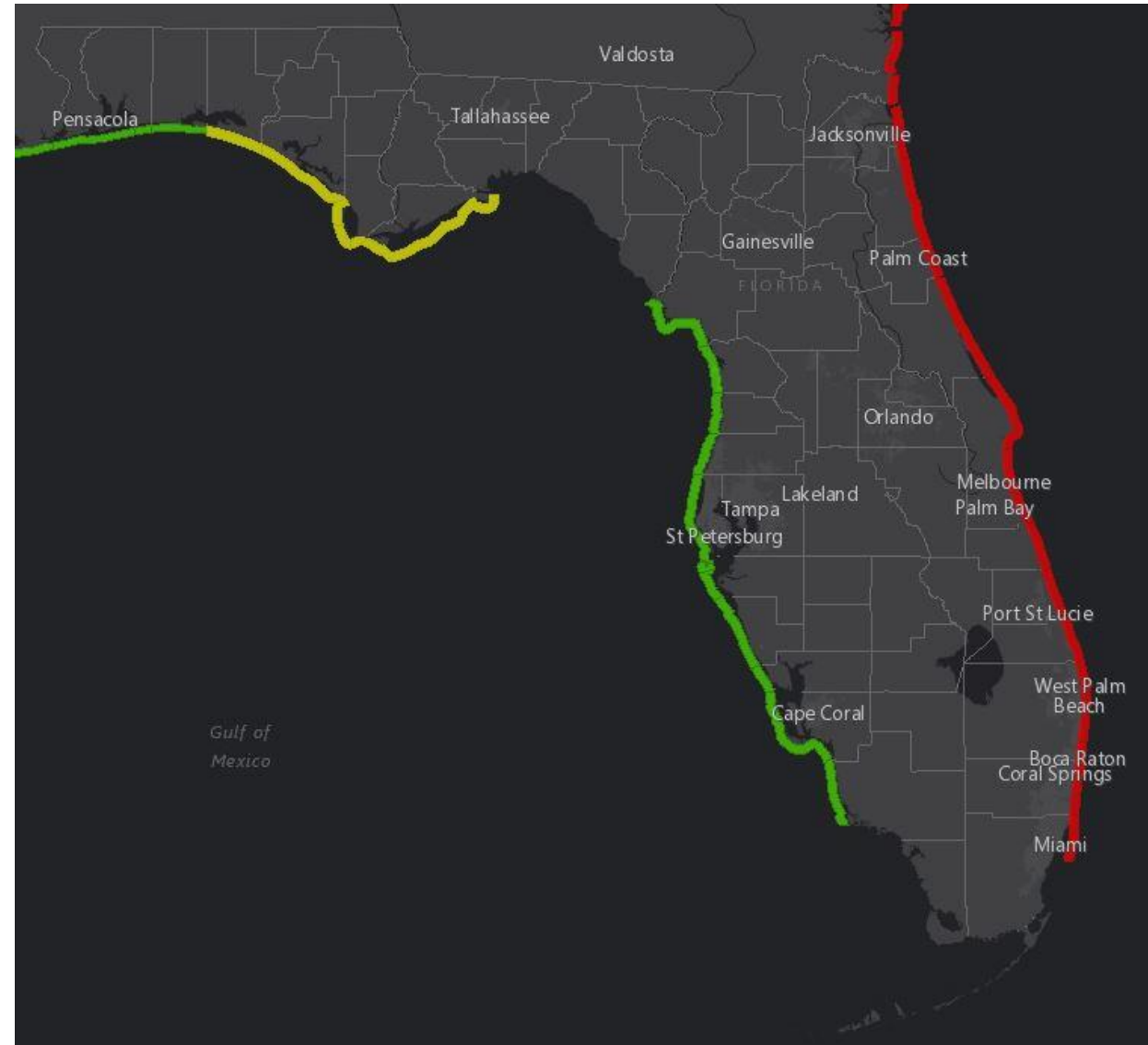
Rip Current Outlook

Today

BEACH FLAG WARNING SYSTEM



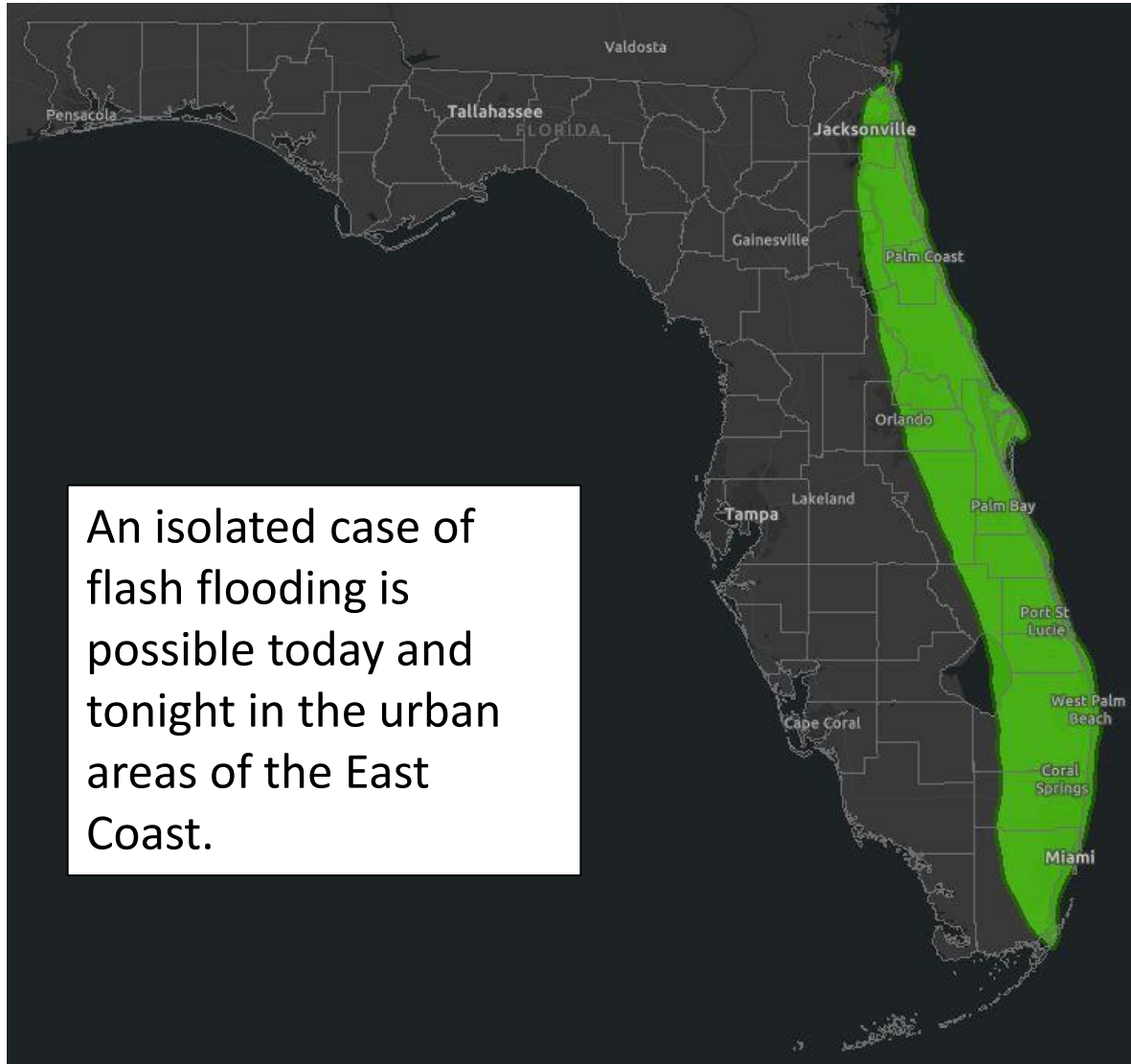
Rough surf and high water levels will keep the rip current risk high at Atlantic beaches through the weekend.











Flash Flood Outlook - Sunday

From the Weather Prediction Center ([LINK](#))



An isolated case of flash flooding is possible today and tonight in the urban areas of the East Coast.

Understanding WPC Excessive Rainfall Risk Categories

No Area/Label	MARGINAL (MRGL)	SLIGHT (SLGT)	MODERATE (MDT)	HIGH (HIGH)
Flash floods are generally not expected.	Isolated flash floods possible	Scattered flash floods possible	Numerous flash floods likely	Widespread flash floods expected
www.wpc.ncep.noaa.gov @NWSWPC	Localized and primarily affecting places that can experience rapid runoff with heavy rainfall.	Mainly localized. Most vulnerable are urban areas, roads, small streams and washes. Isolated significant flash floods possible.	Numerous flash flooding events with significant events possible. Many streams may flood, potentially affecting larger rivers.	Severe, widespread flash flooding. Areas that don't normally experience flash flooding, could. Lives and property in greater danger.
Flash flooding near me?	Flash Flooding	Flash Flooding	Flash Flooding	Flash Flooding
NO Flash Flooding	Flash Flooding	Flash Flooding	Flash Flooding	Flash Flooding
  WEATHER PREDICTION CENTER				

Risk of rainfall exceeding flash flood guidance within 25 miles of a point to the right of a line

HIGH: > 50%

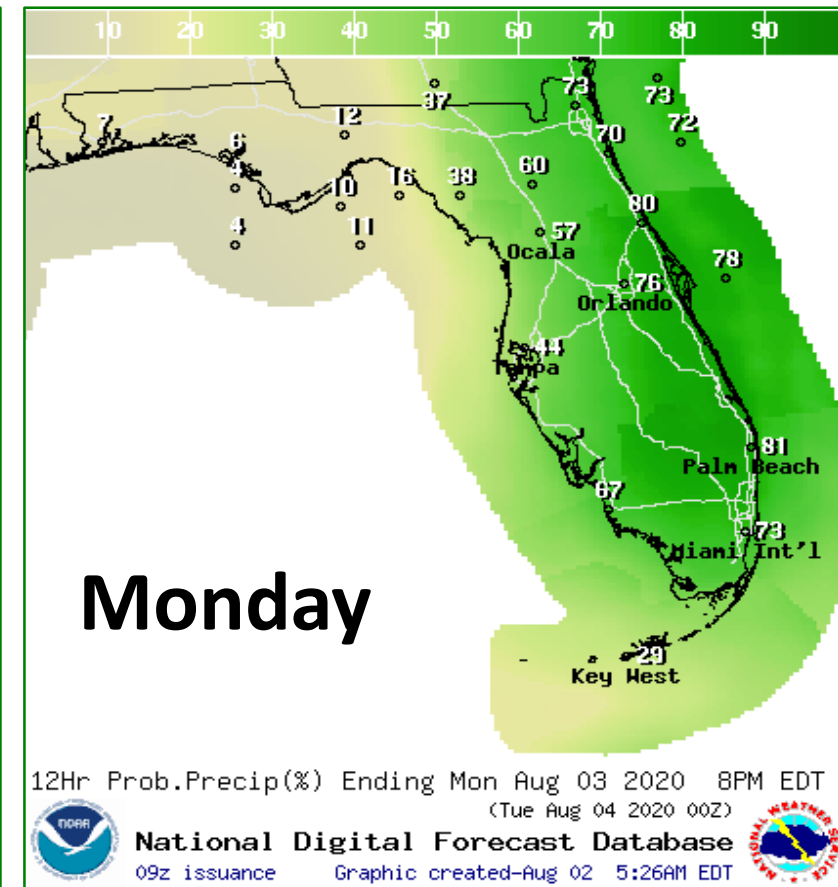
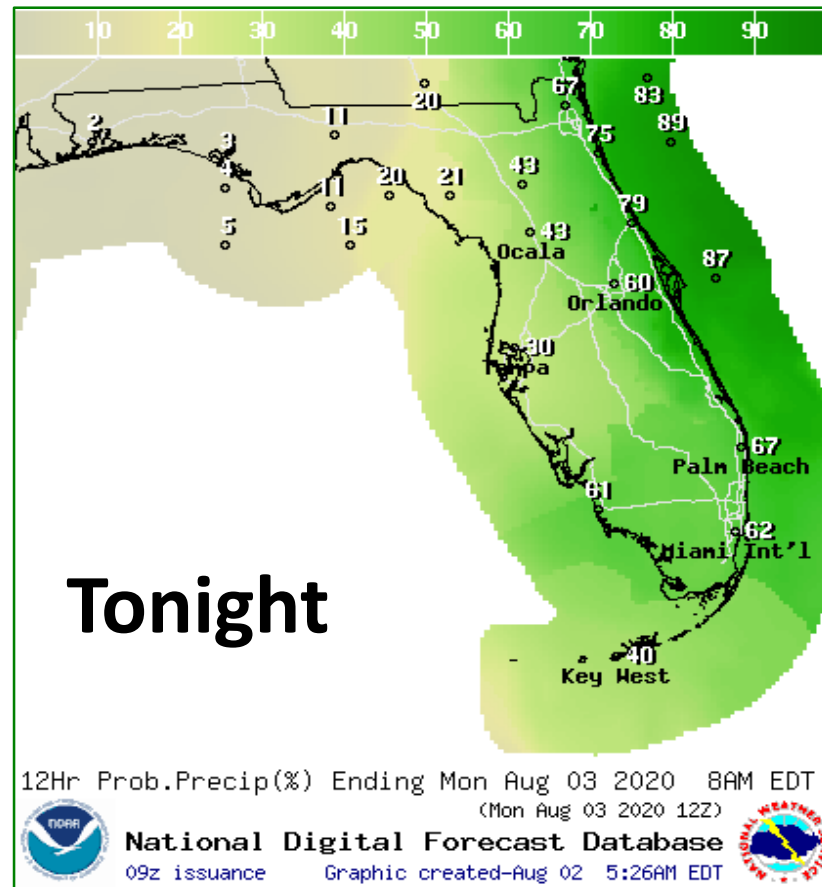
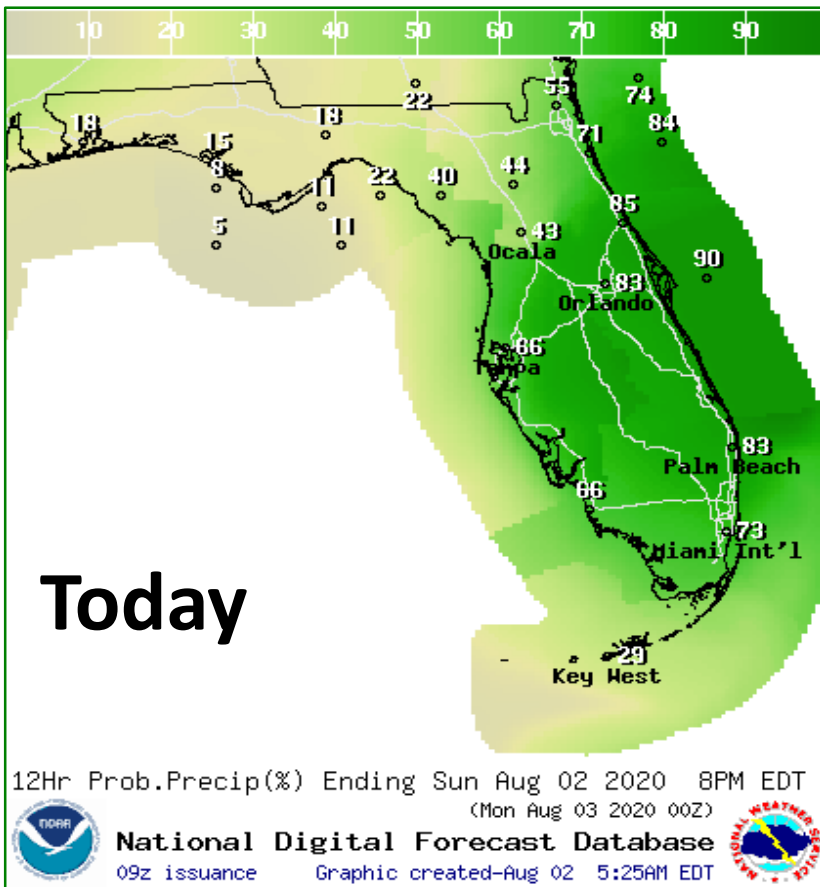
SLGT: 10%-20%

MDT: 20%-50%

MRGL: 5%-10%



Rain Chances Next 3 Days

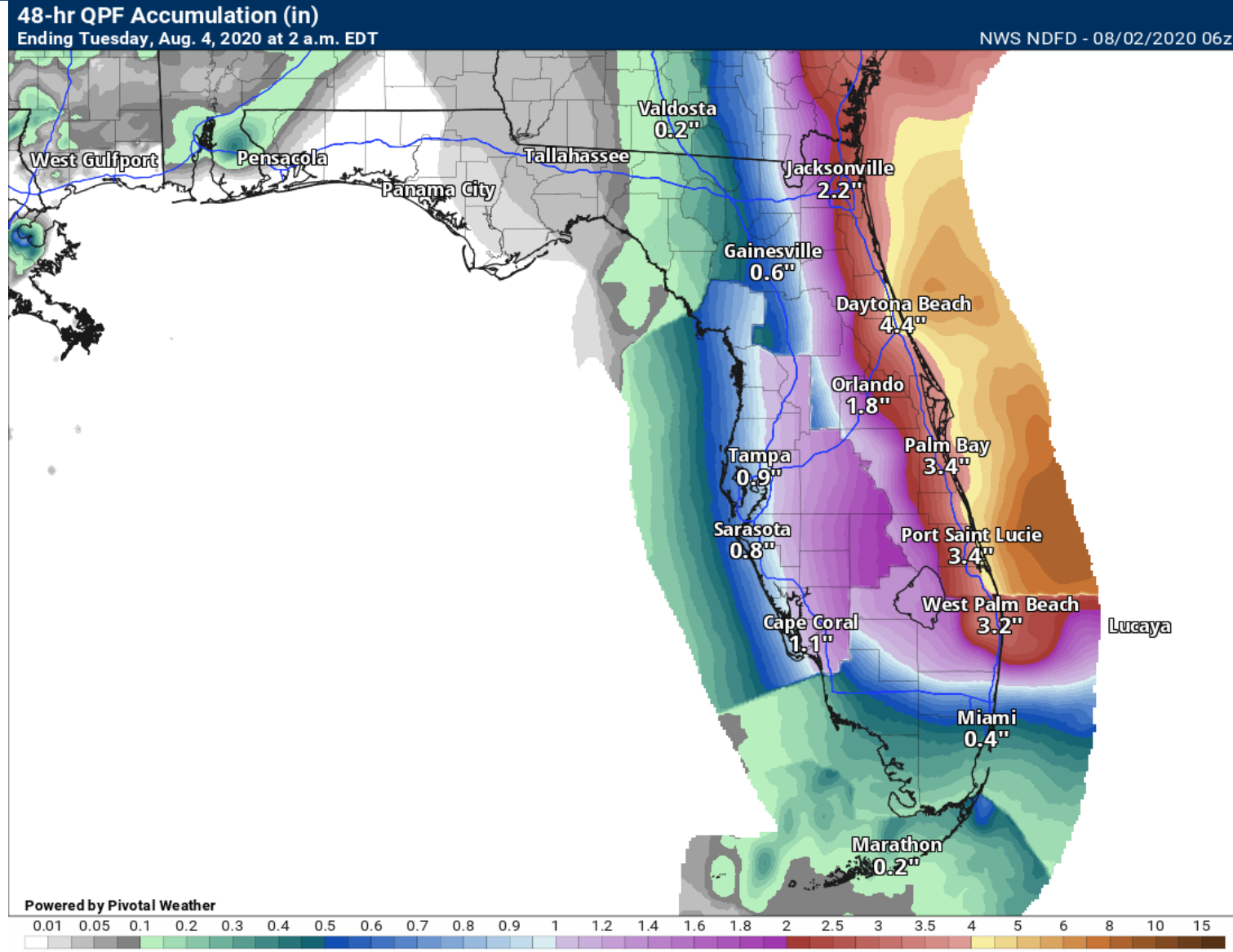


Rain bands will continue to spread northward over the Peninsula as Isaías parallels the East Coast. Even behind the system, tropical moisture will remain in place across the Peninsula on Monday.



Forecast Rainfall Totals Next 48 Hrs

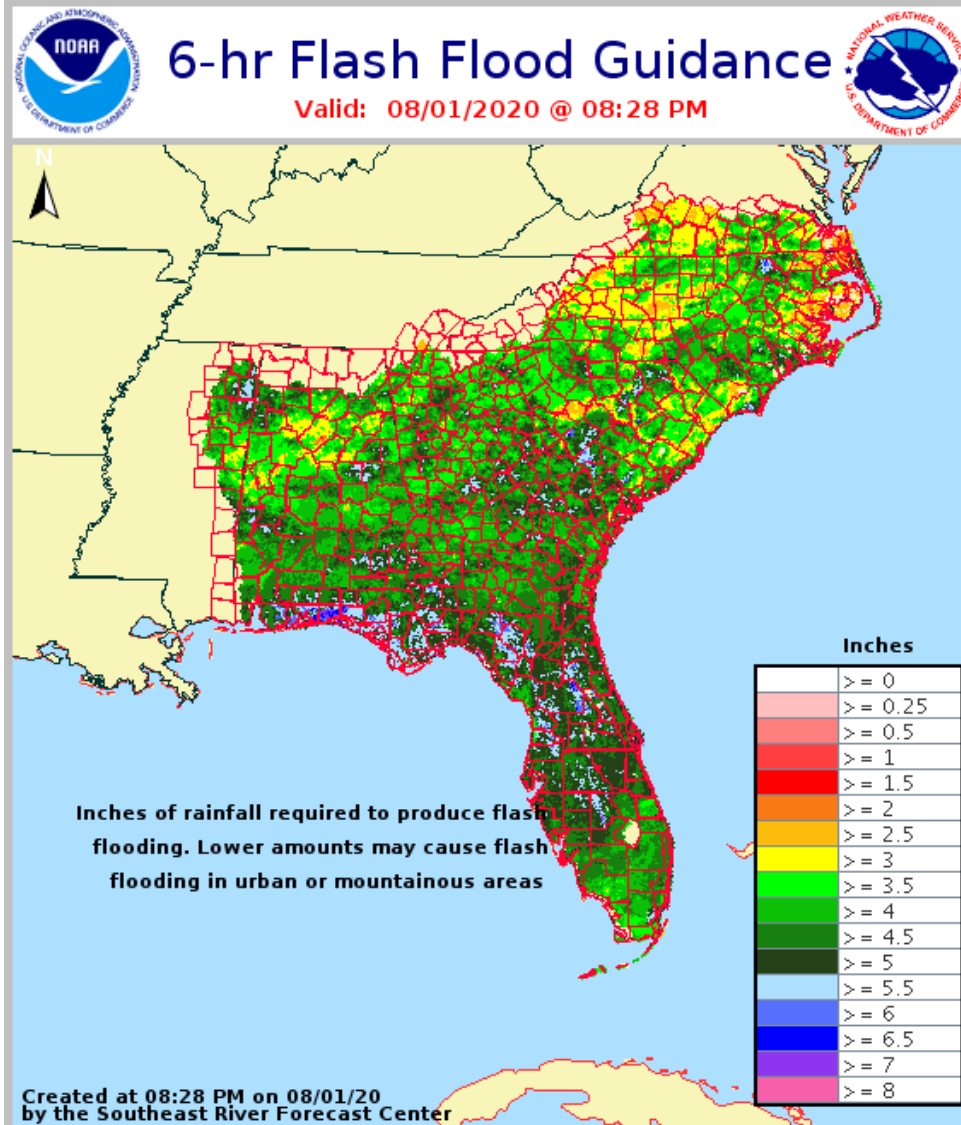
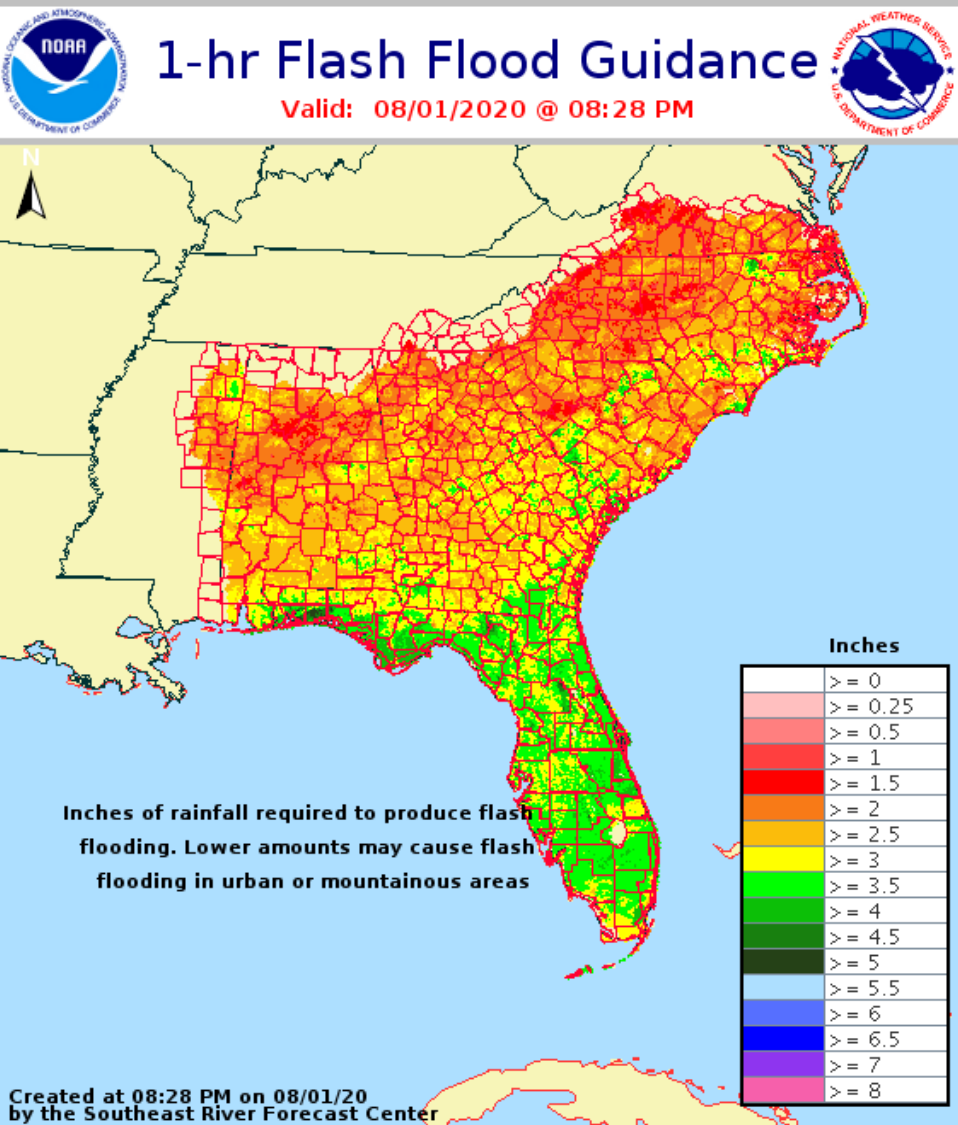
- About 2-4" of rain is forecast along the East Coast, 1-2" inland
- Localized totals double these amounts will be possible (6-8").
- Isolated flash flooding possible, especially in the urban areas along the I-95 corridor.
- The storm is much drier on the western side, and so far, most of the rain is falling offshore.
- With daytime heating over land, some heavy thunderstorms are likely this afternoon across the Peninsula.





Flash Flood Guidance

How Much Rain is Needed to Create Flash Flooding?



In general, more than 3 or 4" of rain in a few hours will result in flash flooding.



Key Messages

From the National Hurricane Center

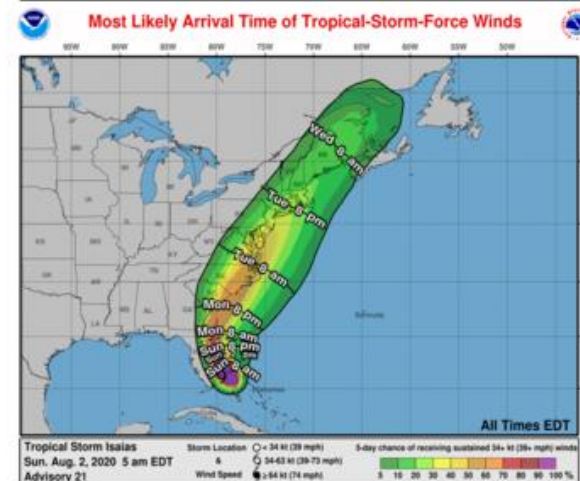


Key Messages for Tropical Storm Isaias

Advisory 21: 5:00 AM EDT Sun Aug 02, 2020



1. Tropical storm conditions will continue across portions of the northwestern Bahamas through today.
2. Tropical storm conditions are expected to spread northward along the east coast of Florida within the warning area through early Monday. These conditions are expected to spread northward along the coast of Georgia and South Carolina within the warning area on Monday.
3. Dangerous storm surge is possible along the Florida east coast from Jupiter Inlet to Ponte Vedra Beach where water rises of 2 to 4 feet above ground level are possible along the immediate coastline and adjacent waterways. Residents there should follow advice given by local emergency officials.
4. Isaias will produce heavy rains and potentially life-threatening flash flooding across portions of the northwestern Bahamas, and flash and urban flooding, especially in low-lying and poorly drained areas, along the East Coast of the United States. Minor to isolated moderate river flooding is possible across portions of the Carolinas and Mid-Atlantic this week.
5. Tropical storm watches are in effect for portions of the coast of South and North Carolina. Additional watches and warnings will likely be issued later today as Isaias is expected to move northward near or over the southeast and mid-Atlantic coasts over the next couple of days.

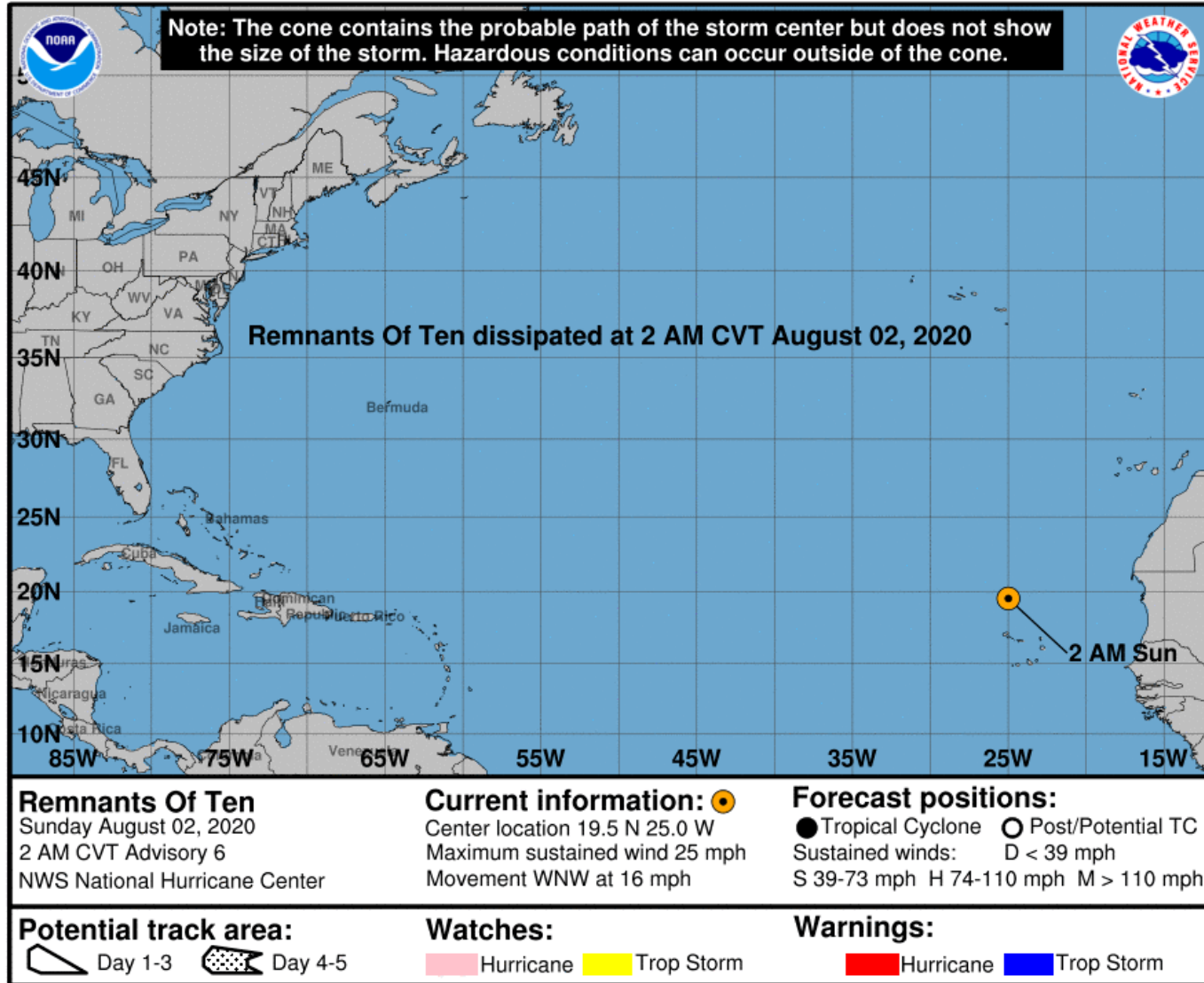


For more information go to hurricanes.gov



Official Forecast Track

From the National Hurricane Center – Tropical Depression #10



- Tropical Depression #10 dissipated overnight and the last advisory was issued.
- This system poses no threat to land.



Tropical Weather Outlook

Possible Area of Development During the Next 5 Days ([LINK](#))



Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



Showers and thunderstorms associated with a tropical wave located a few hundred miles east of the Leeward Islands continue to show signs of organization. Recent satellite wind data, however, indicate that the system remains disorganized at the surface.

Environmental conditions are forecast to be conducive for additional development during the next few days, and a tropical depression could form by the middle of the week.

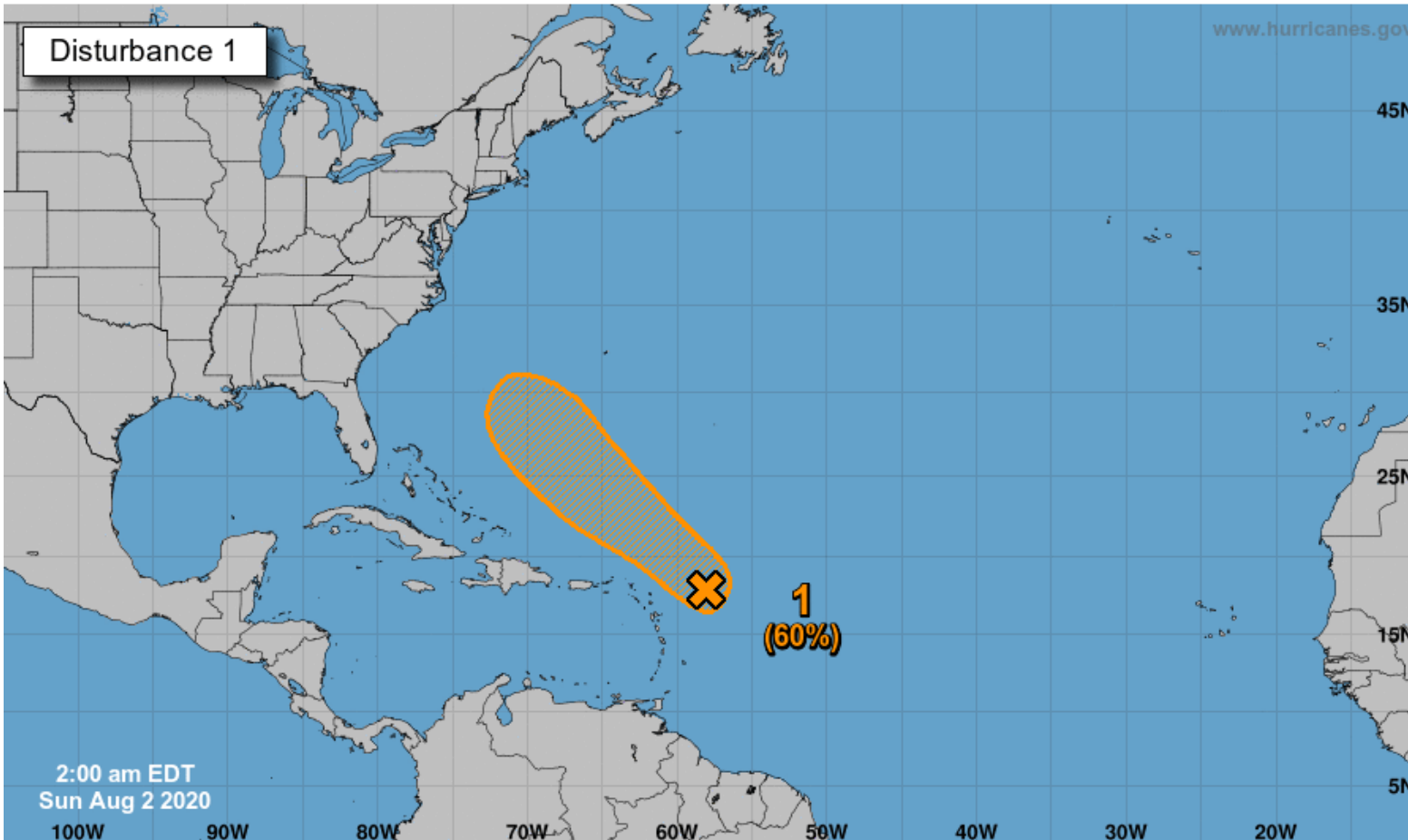
This system is forecast to turn northwestward and then northward over the western Atlantic, passing north of the Leeward Islands on Monday and Tuesday.

This system does not pose a threat to Florida over the next week at least.

The next name on the list is Josephine.

***Formation chance through 48 hrs...low...30%**

***Formation chance through 5 days...medium...60%**

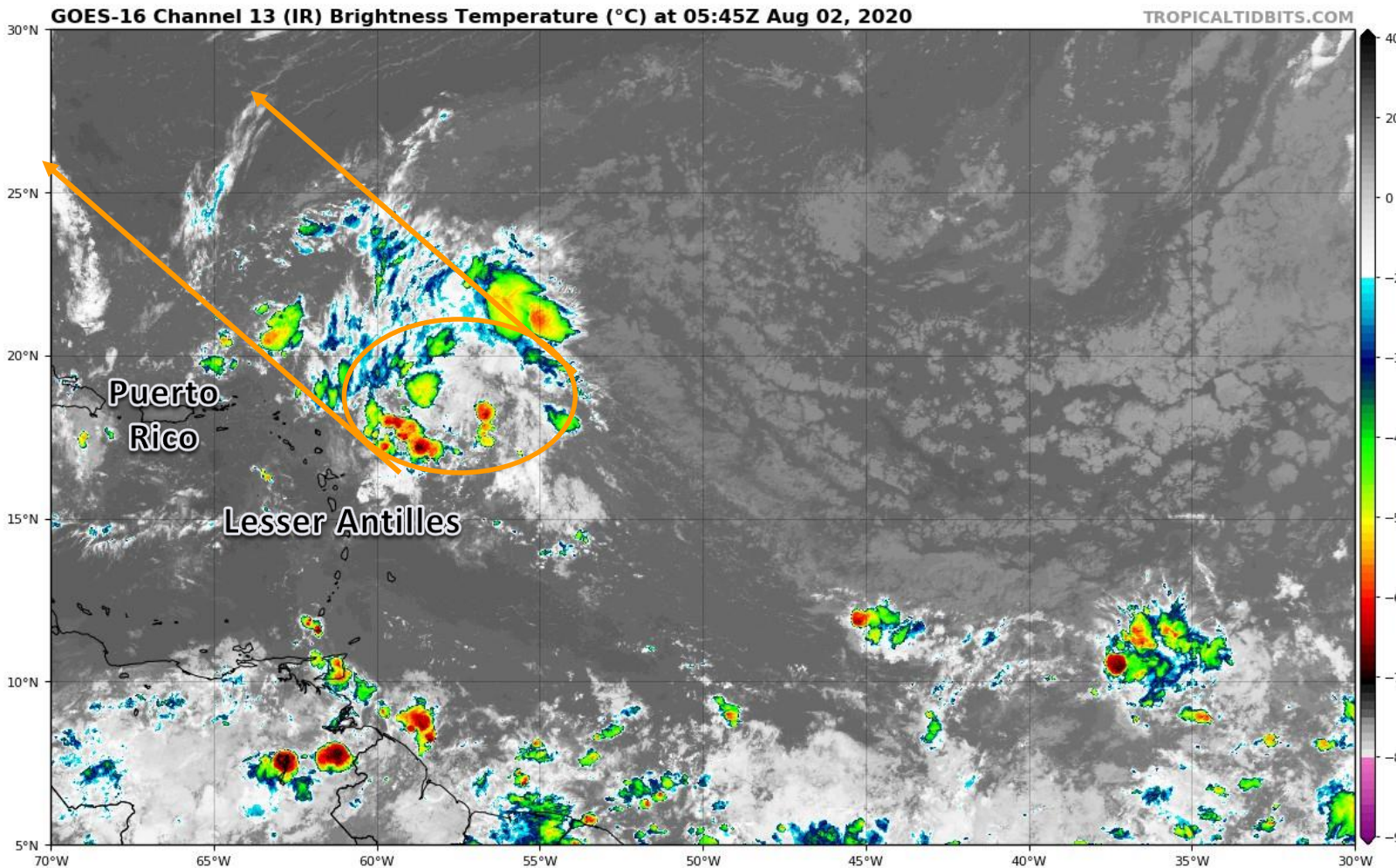


Current Disturbances and Five-Day Cyclone Formation Chance:
 Tropical or Sub-Tropical Cyclone:
 < 40% 40-60% > 60%
 Depression Storm Hurricane
 Post-Tropical Cyclone or Remnants

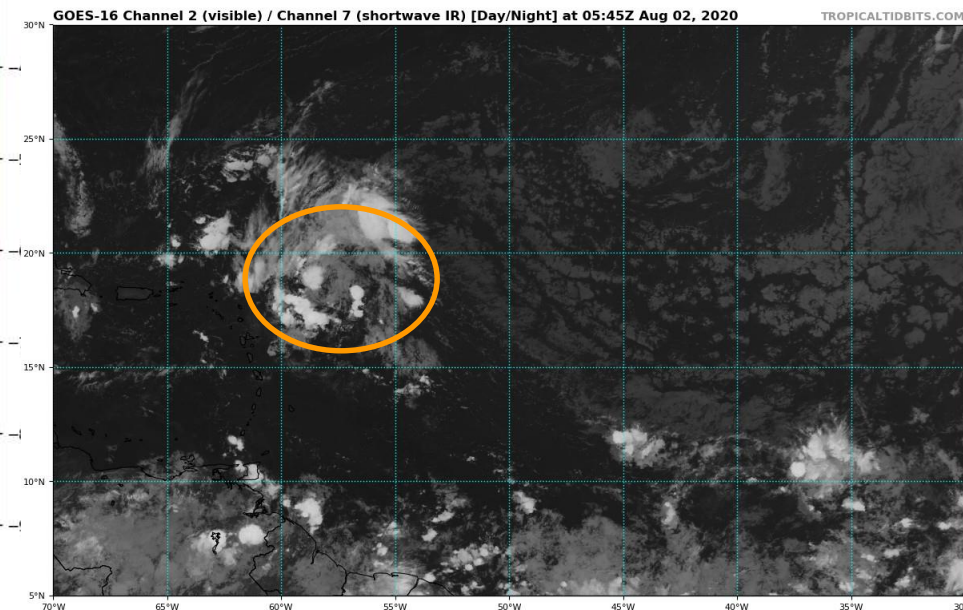


Satellite Imagery

Central Atlantic – Tropical Wave (60%)



A tropical wave is moving to the northwest and will take time to organize. Dry air will be the main limiting factor for development, but shower activity has gradually increased over the last 24-36 hours. Odds are increasing this will organize into a tropical cyclone sometime later this week.

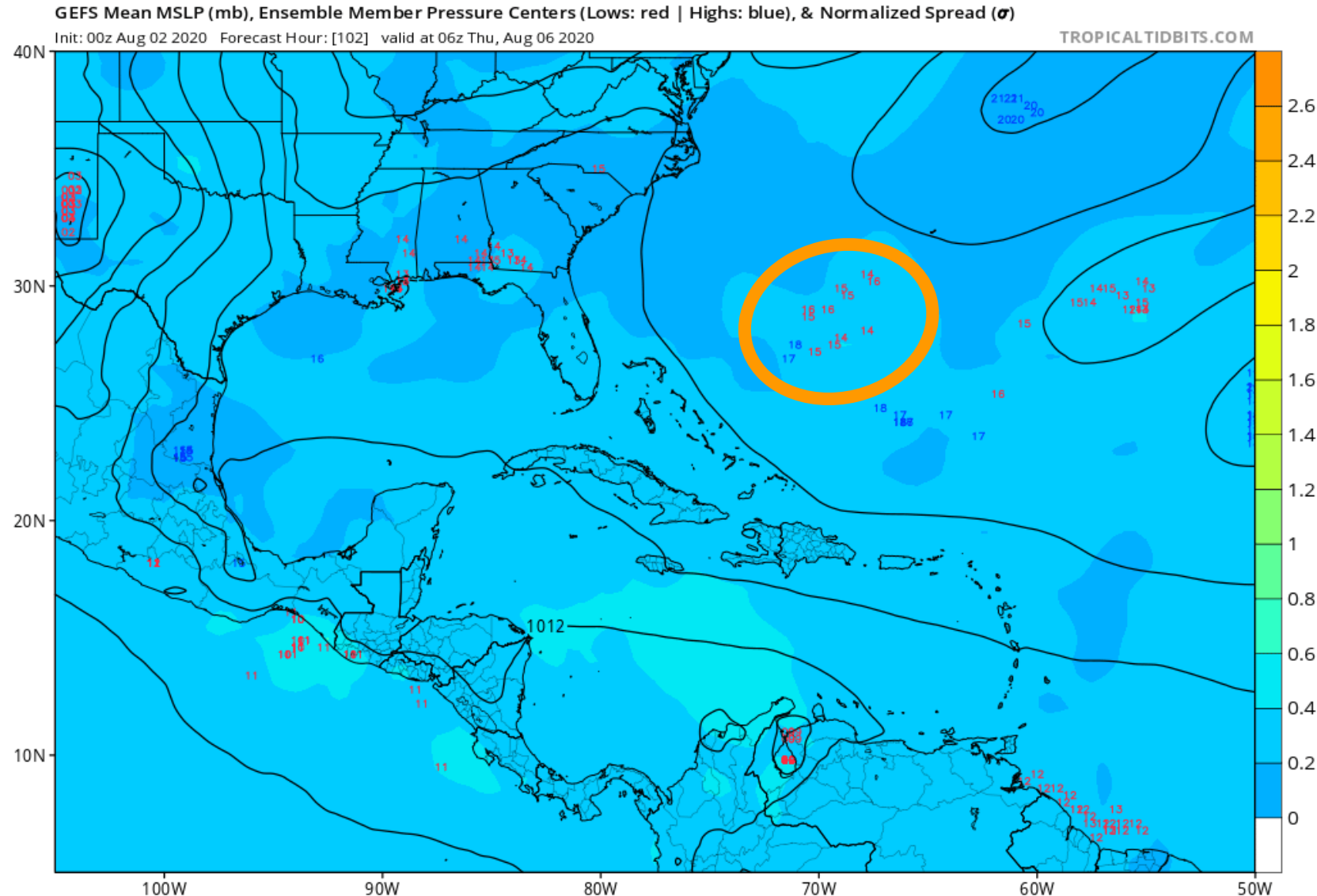




Model Forecast Tracks

Ensembles Models

The next tropical wave will track northwest around an area of high pressure, and be located between Bermuda and Florida during the middle of the week. It may stall out and meander in the Southwest Atlantic later in the week.





Overall Summary

Tropical Storm Isaias

- Isaias remains disorganized this morning, with the center located about 45 miles east of Fort Lauderdale, moving northwest at 9 mph.
- Some rain bands are occurring over Florida, but the heaviest thunderstorms remain offshore.
- Maximum sustained winds are at 65 mph, with the strongest winds occurring east of the center over the Bahamas.
- Tropical storm winds extend out 115 miles east from the center, but only about 25-50 miles to the west.
- A north to northeast motion is expected by tomorrow with the system paralleling the East Coast of Florida as it continues to weaken.
- The system will move inland over the Carolinas Monday night and Tuesday.

Tropical Depression #10

- TD #10 dissipated overnight and the National Hurricane Center issued the last advisory.

Central Atlantic Tropical Wave

- A tropical wave northeast of the Lesser Antilles is producing some shower and thunderstorm activity as it moves northwest.
- Some slow development of this system is possible over the next few days while it turns north over the western Atlantic.
- This system is not forecast to be a direct threat to Florida, but may prolong the rip current risk later this week if the system develops and moves slowly over the Southwest Atlantic.
- This system has a 30% (low) chance of formation over the next 48 hours, and a 60% (medium) chance in days 3-5.



Overall Summary

Florida Outlook:

- **Isaias will impact the East Coast of Florida today and tomorrow.**
- **Storm Surge Watch:** St. Johns, Flagler, Brevard, Indian River, St. Lucie, Martin
- **Coastal Flood Advisory:** Clay, Putnam, Duval, coastal Nassau, coastal Palm Beach
- **Tropical Storm Warning:** coastal Nassau, Duval, Clay, Putnam, St. Johns, Flagler, Volusia, Seminole, Orange, Osceola, Brevard, Indian River, St. Lucie, Martin, Okeechobee, Palm Beach, and coastal Broward
- Wind gusts from 40-65 mph are generally forecast in the tropical storm warning area, with gusts to 75 mph possible.
- Heavy rainfall of 3-4" with localized totals possibly double that will be possible across the East Coast. Thunderstorm coverage will increase across the Peninsula this afternoon.
- Isolated flash flooding is possible in the urban area of the I-95 corridor.
- Streamflows in the Peninsula are running near to below normal, and it will take more than 3-5" of rain to cause flooding issues along the rivers in the Peninsula.
- Isolated tornadoes may be possible, especially along the immediate East Coast.
- 2-4' of storm surge is expected from Ponte Vedra Beach to Jupiter Inlet, and 1-3' of storm surge is expected from Jupiter Inlet to North Miami Beach and in the St. Johns River. This will generally cause minor to isolated moderate coastal flooding.
- Elevated surf, dangerous rip currents, and pockets of significant beach erosion will be likely at all Atlantic beaches this weekend.

The next briefing packet will be issued late Sunday morning with the 11 AM ET advisory. For the latest information on the tropics, please visit the National Hurricane Center website at www.hurricanes.gov.



TROPICAL UPDATE



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State Meteorological Support Unit

Florida Division of Emergency Management

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