



TROPICAL UPDATE



11:00 AM EDT

Sunday, August 2, 2020

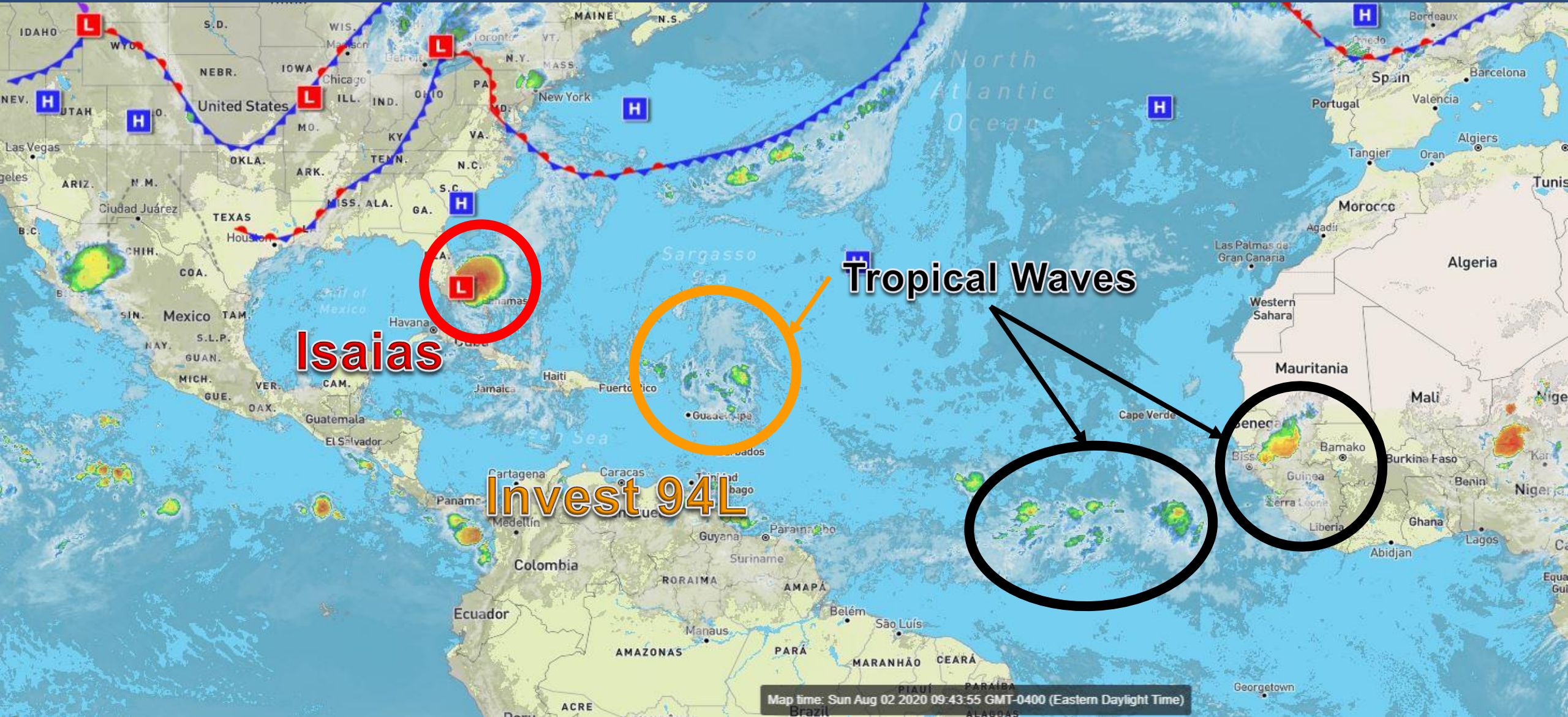
Tropical Storm Isaias &
Invest 94L (60%)

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





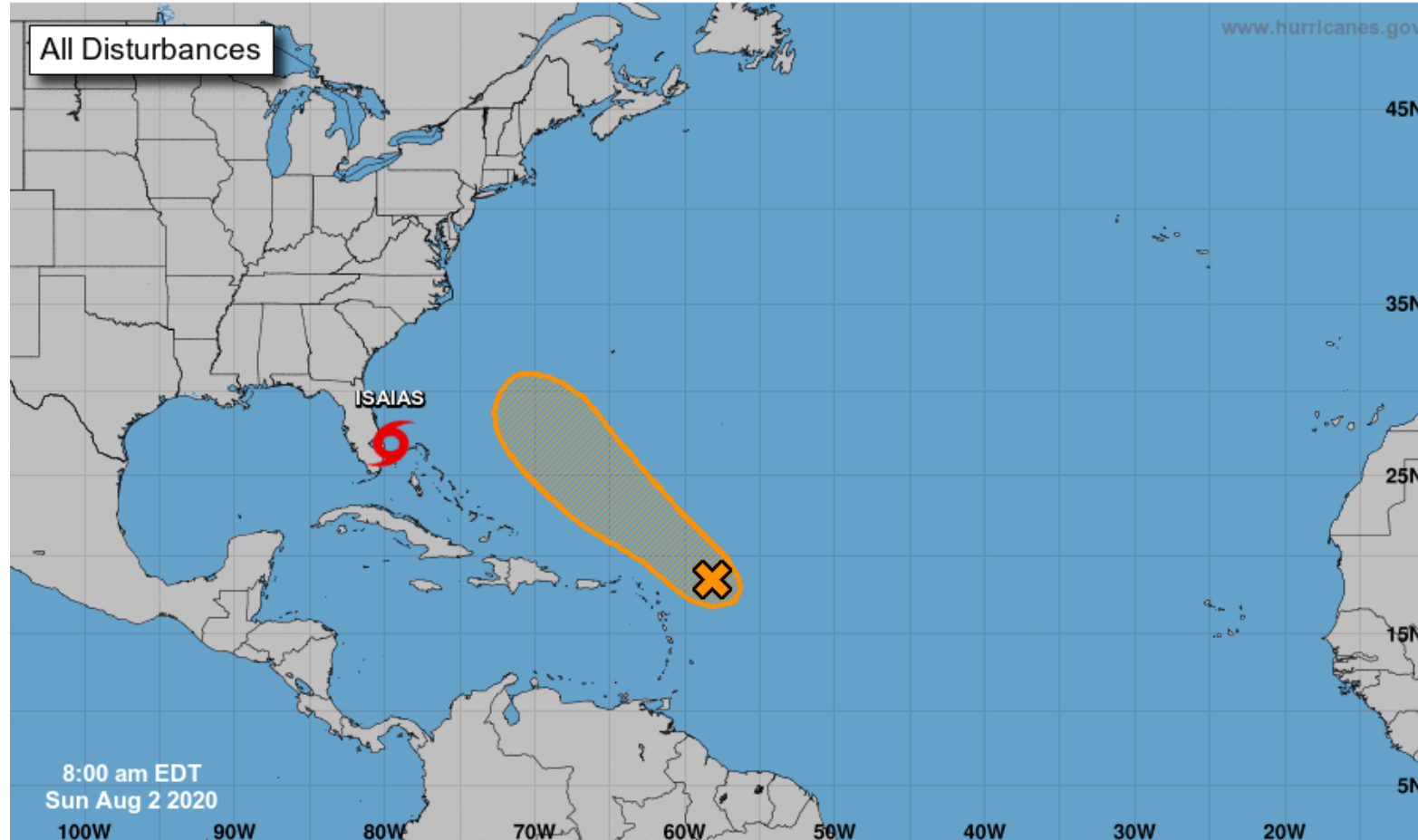
Tropical Weather Outlook

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

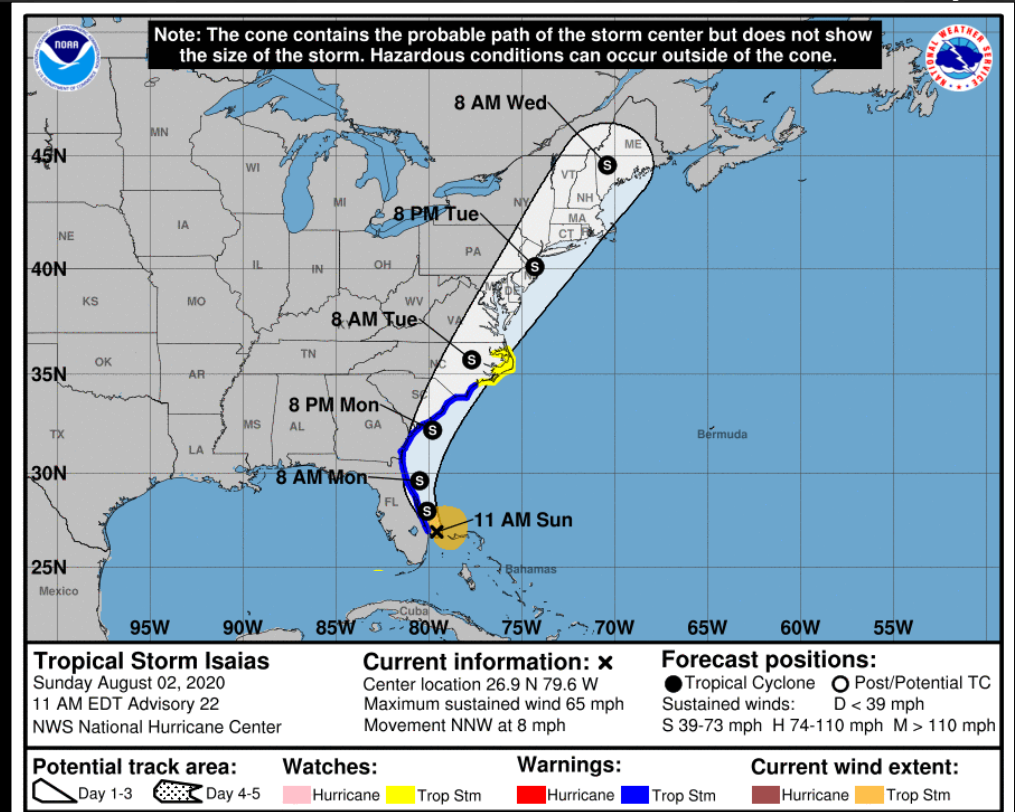
Post-Tropical Cyclone or Remnants

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 remains a tropical storm (65 mph) and is now moving to the north-northwest at 9 mph. Little change in strength is forecast as it parallels Florida. Tropical Storm Warnings are in effect. Rain bands will increase today across Central Florida and Northeast Florida tonight.

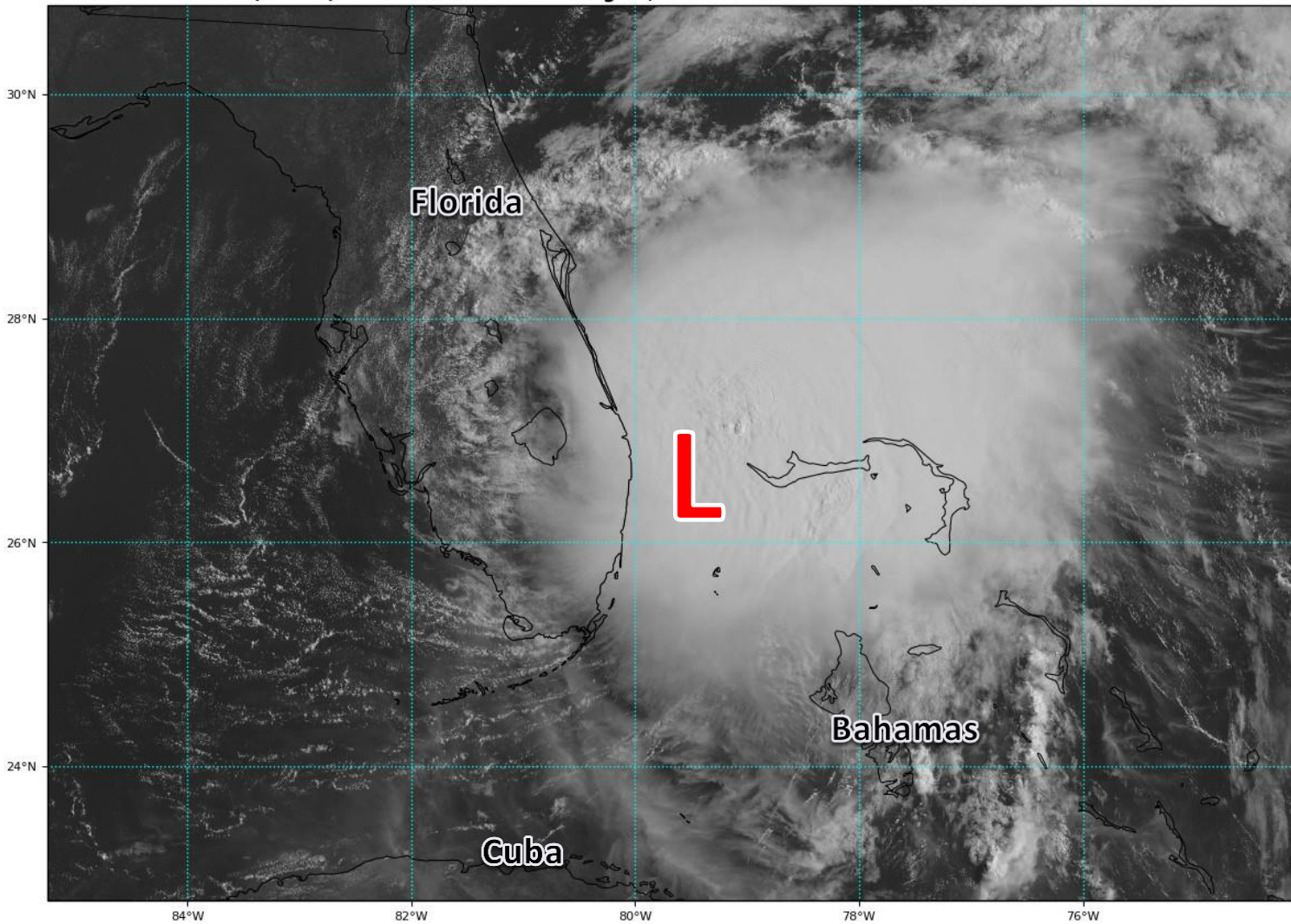


Satellite Imagery

Southwest Atlantic – Tropical Storm Isaias

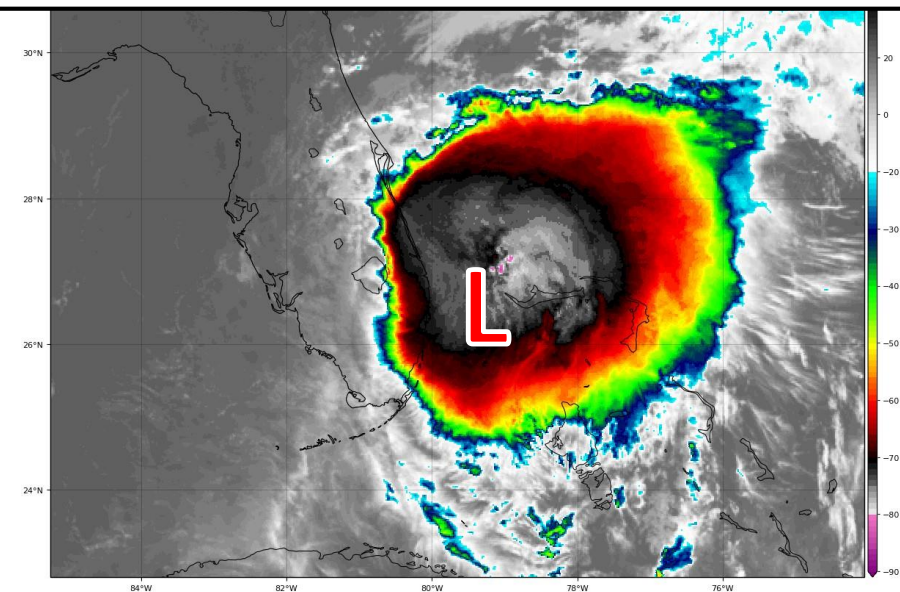
GOES-16 Channel 2 (visible) Reflectance at 13:42Z Aug 02, 2020

TROPICALTIDBITS.COM



Isaias has been producing strong thunderstorms this morning east of the center and over the Bahamas, but remains disorganized.

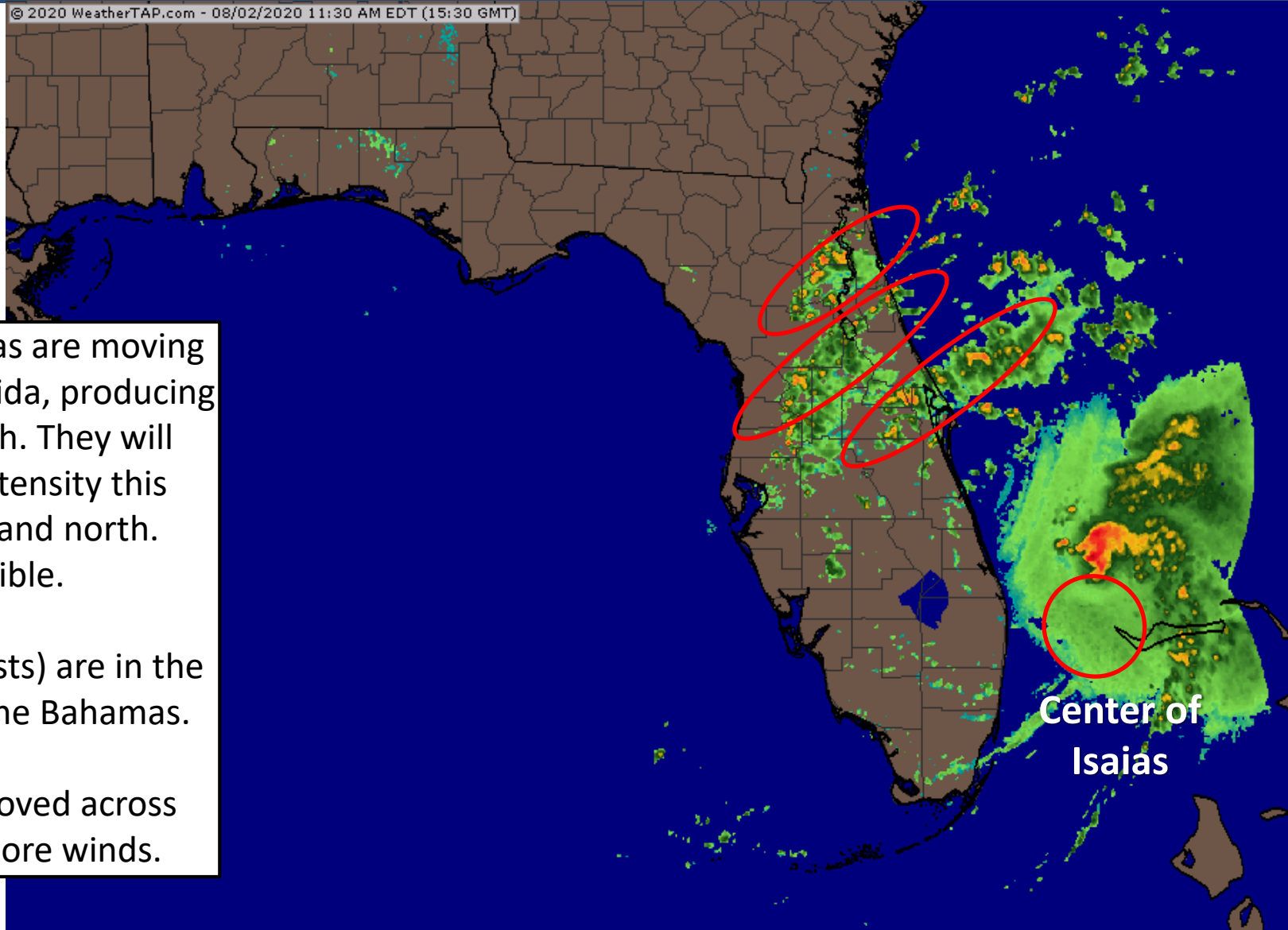
The thunderstorms may try to wrap around to the west, closer to Florida later today. This would need to occur to bring sustained tropical storm conditions to the coast. For now, it remains offshore.





Current Florida Radar

As of 11:30 AM ET / 10:30 AM CT



The outer rain bands from Isaias are moving into Central and Northeast Florida, producing wind gusts around 35-45 mph. They will increase in frequency and intensity this afternoon and spread west and north.

Waterspouts are possible.

Stronger winds (50-70 mph gusts) are in the heavier thunderstorms over the Bahamas.

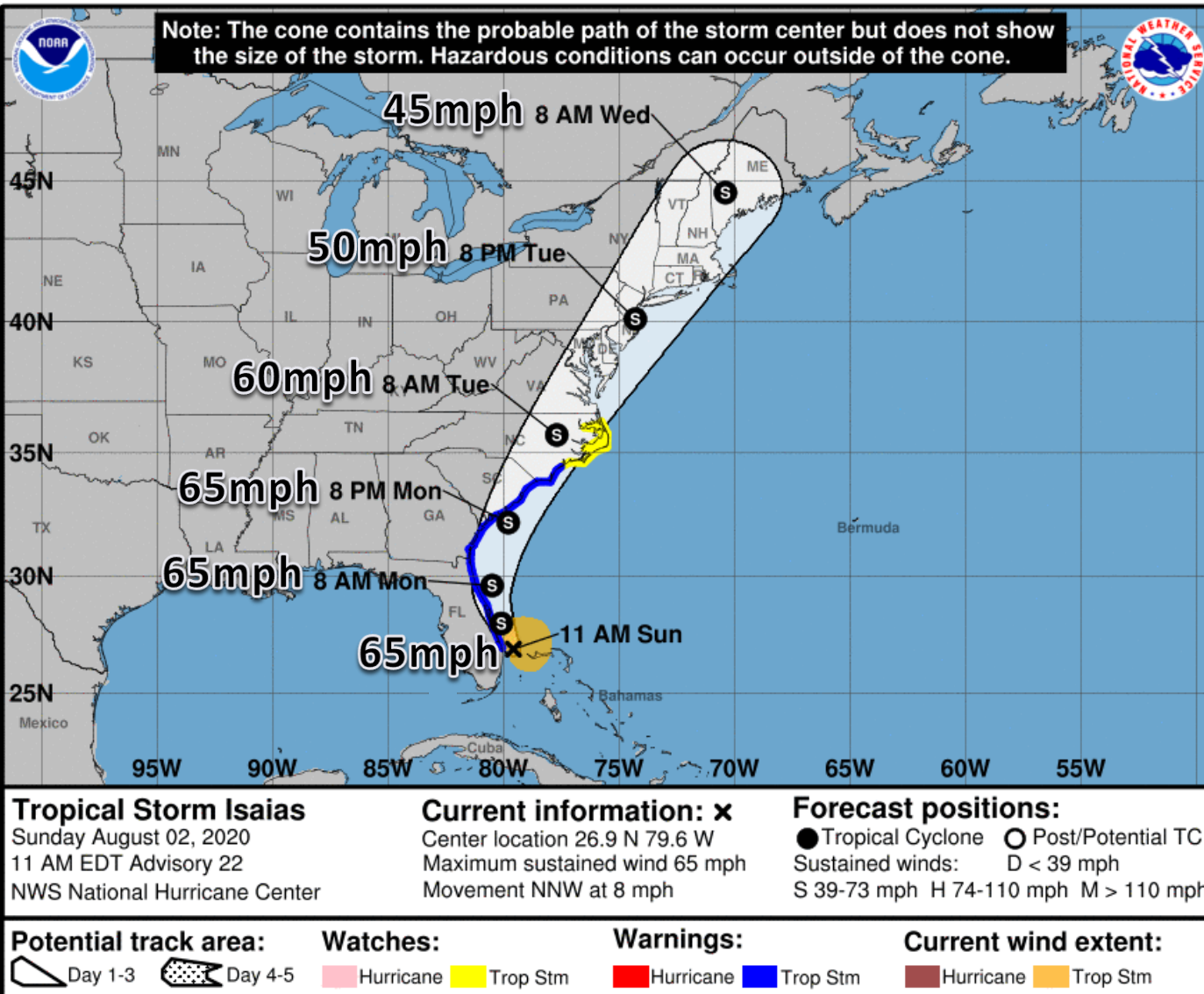
Conditions have greatly improved across Southeast Florida with offshore winds.

Center of
Isaias



Official Forecast Track

From the National Hurricane Center – Tropical Storm Isaias



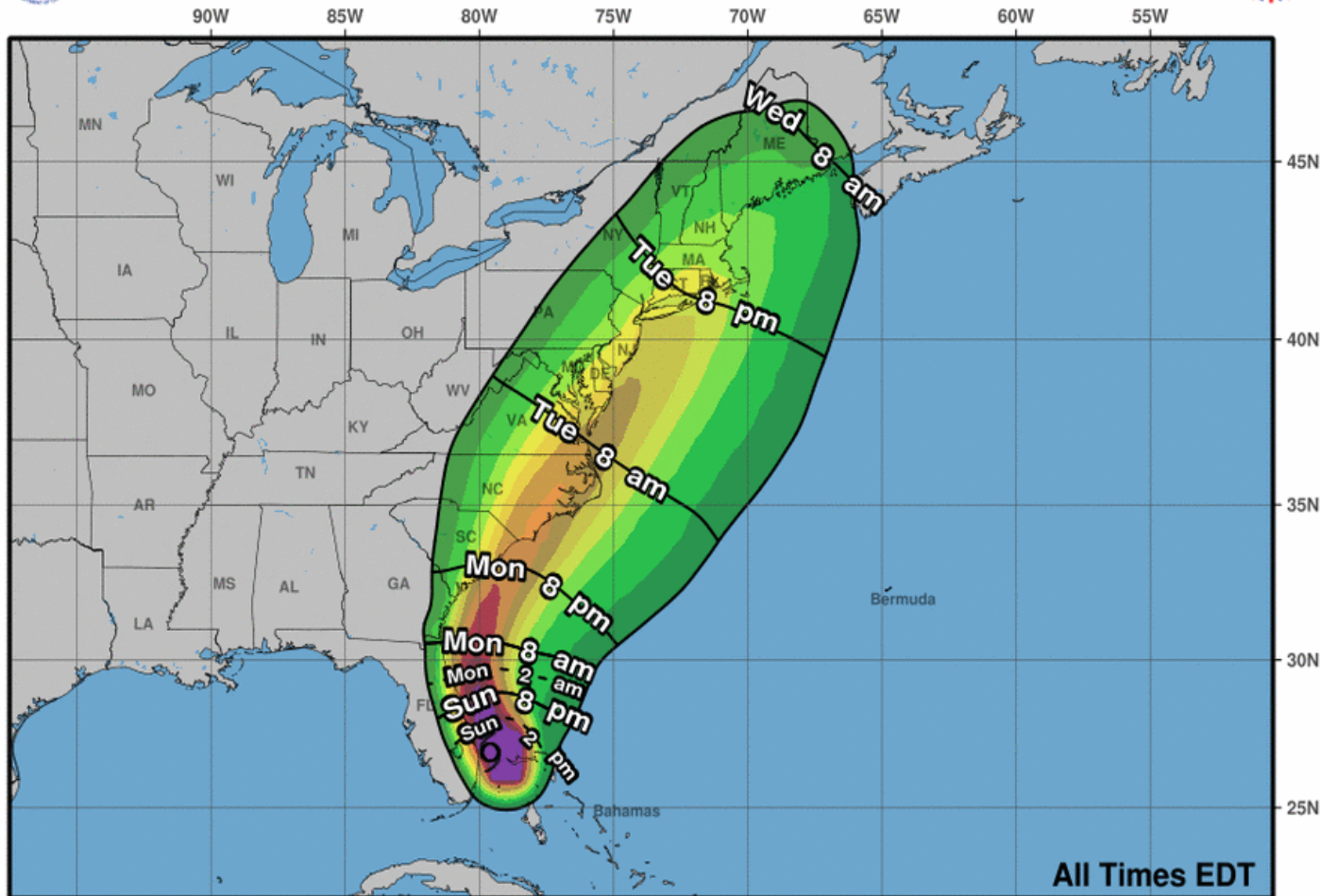
- The center of Isaias is about 55 miles east of Fort Pierce, moving to the NNW at 8 mph.
- Tropical Storm Isaias is disorganized, and maximum sustained winds are near 65 mph. Most of these winds are occurring in the eastern half of the storm, over the Bahamas.
- Little change in strength is forecast.
- The system will parallel the Florida East Coast through Monday afternoon, most likely just offshore.
- Tropical Storm Warnings remain in effect for parts of East Central and Northeast Florida.



Time of Arrival & Wind Speed Probabilities

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

0-3 Day Most Likely Arrival Time of Tropical-Storm-Force Winds



All Times EDT

Ft. Pierce: 80% (-7)
Daytona Beach: 25% (-7)
Cocoa Beach: 67% (-7)
Orlando: 7% (-6)
Jacksonville: 7% (-3)

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 11 am EDT
Advisory 22

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

Tropical Storm Isaias

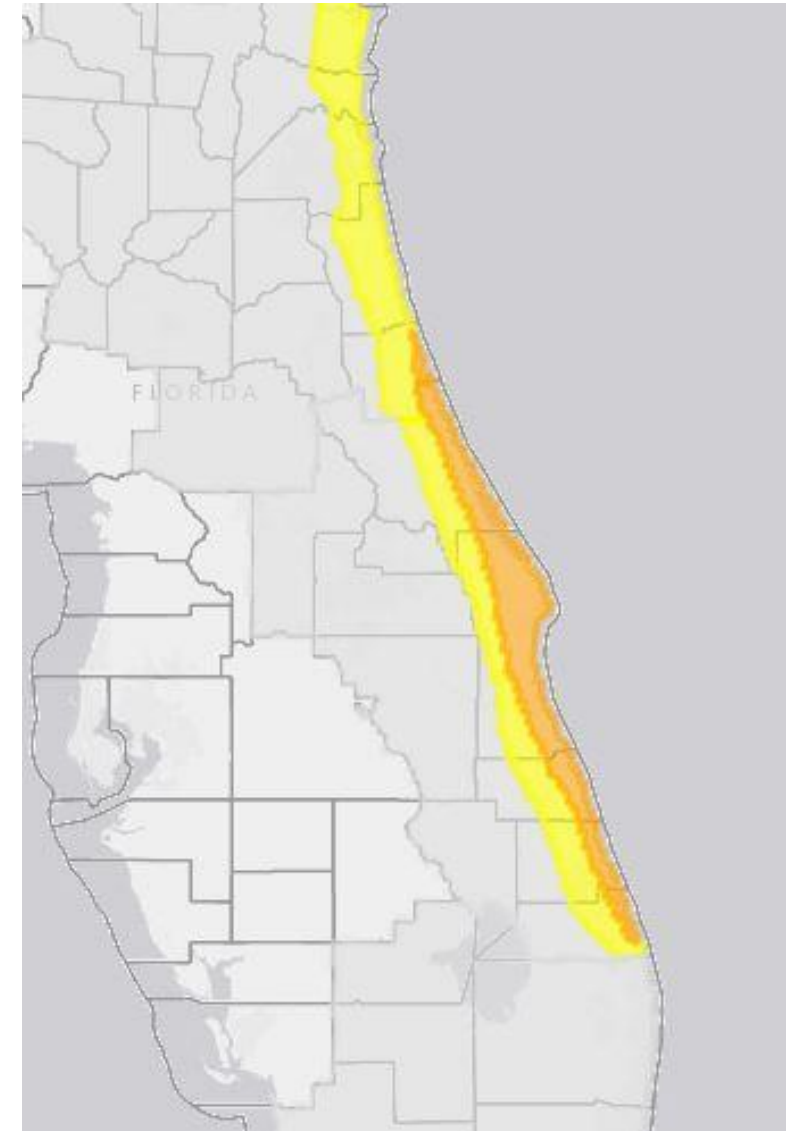
The greatest wind threat is along the immediate coast (Space & Treasure Coast) of the Peninsula, mainly along and east of I-95.

Higher gusts to 60 mph may be possible this afternoon through tomorrow morning 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



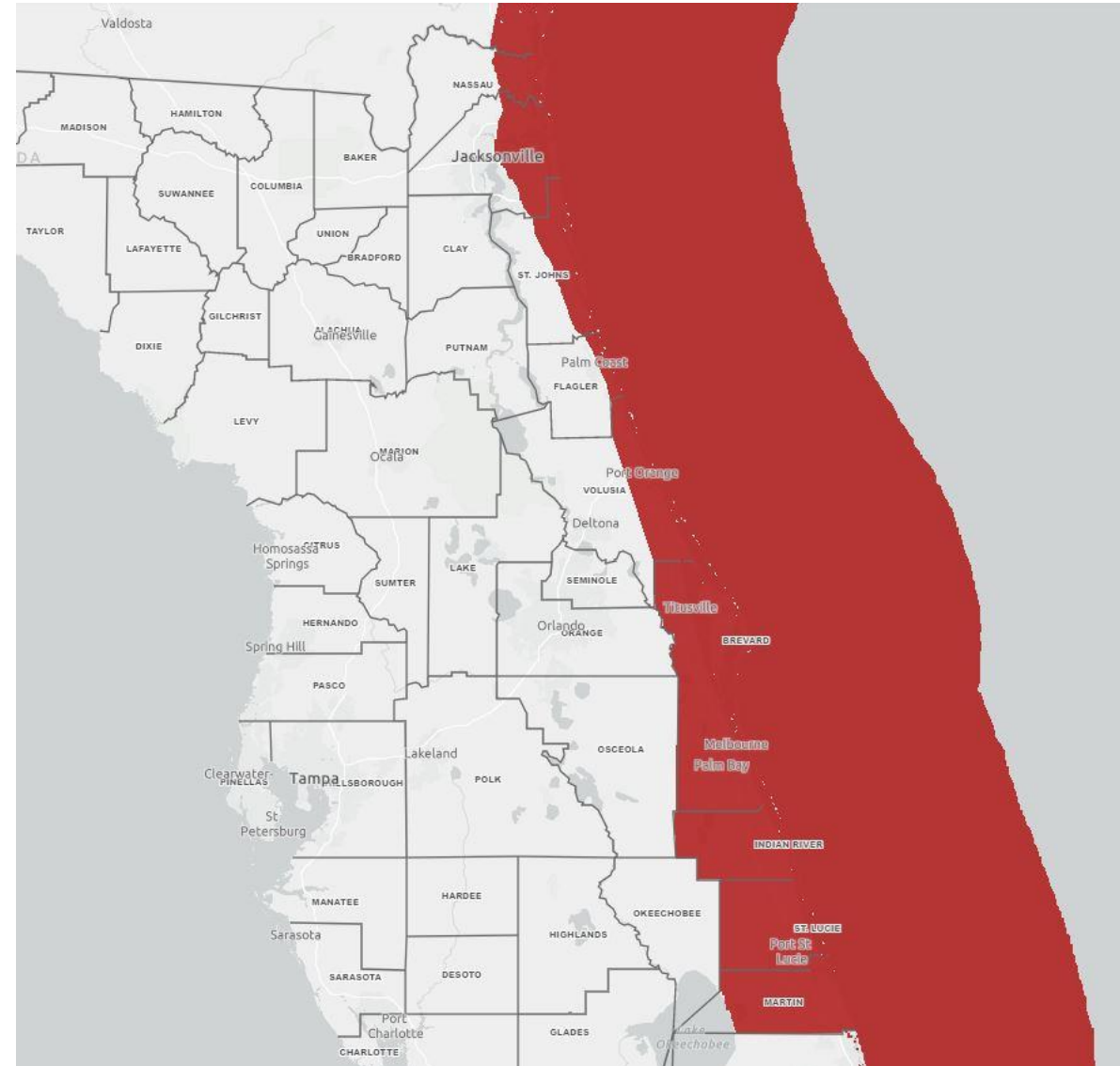


Wind Watches and Warnings

In Effect Until Further Notice

Tropical Storm Warnings are in effect for:
Brevard, coastal Duval, coastal Flagler,
Indian River, Martin, coastal Nassau,
coastal St. Johns, St. Lucie, and coastal
Volusia

(Tropical Storm conditions LIKELY)



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

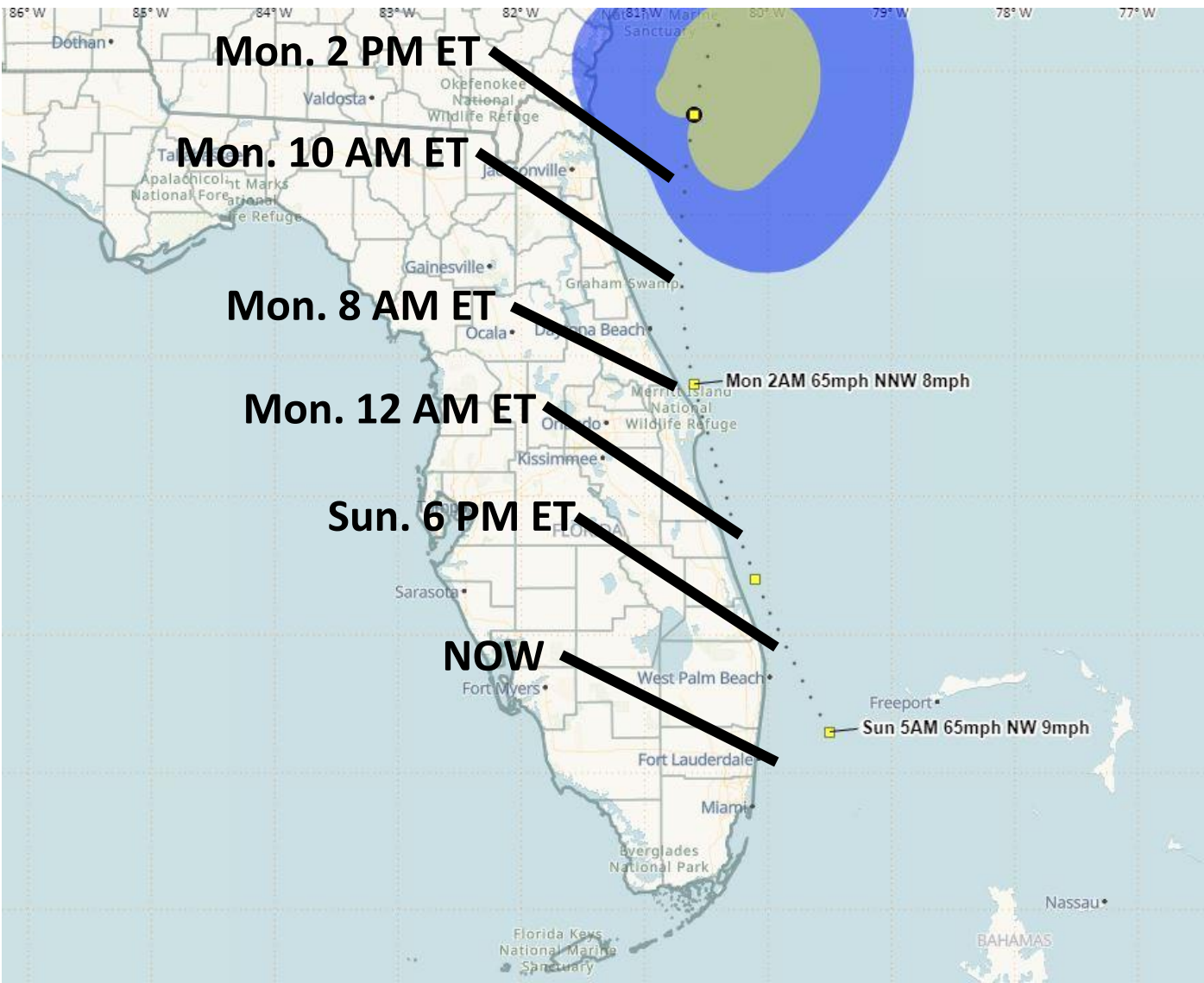


weather.gov/mob



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.

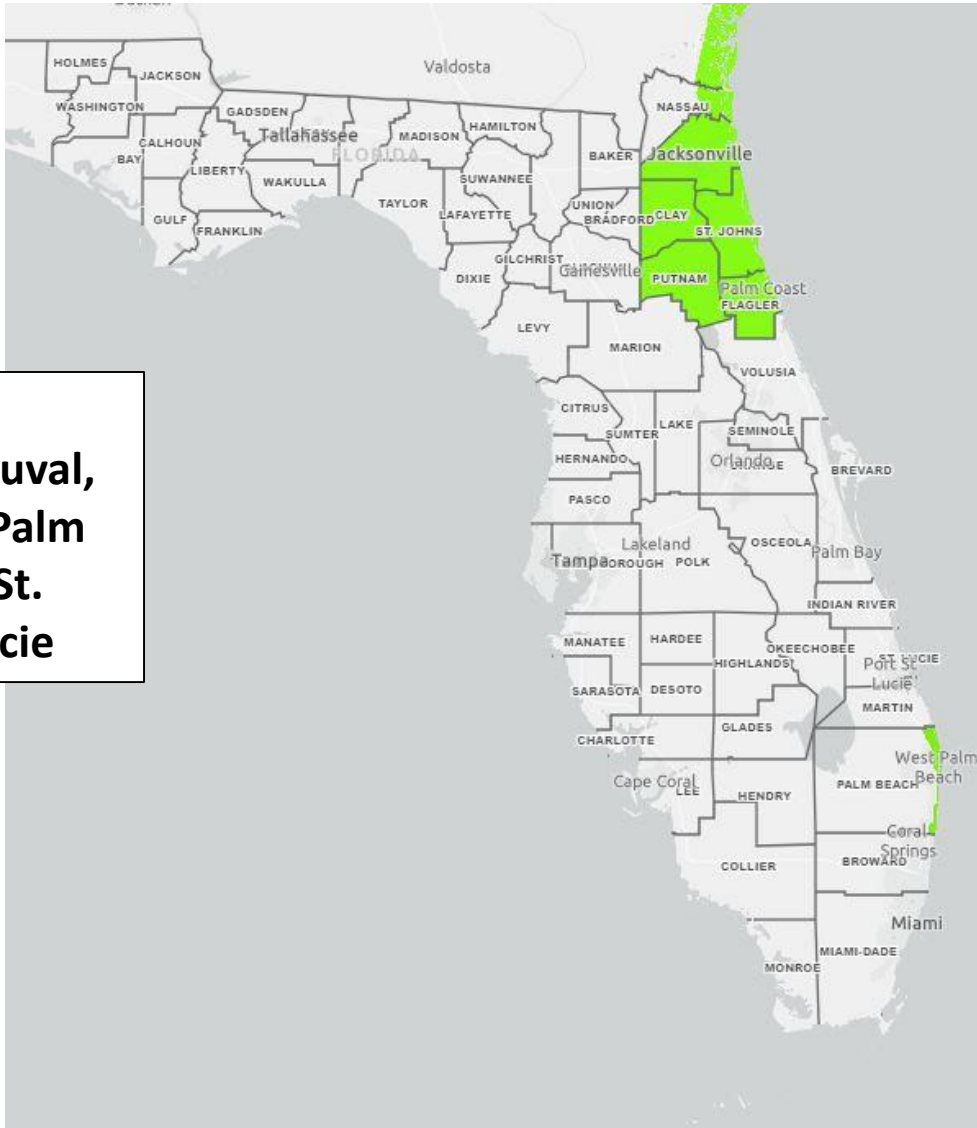
Conditions should improve in South Florida this morning, through the Treasure Coast this evening, Space Coast overnight into Monday morning, and Northeast Florida by Monday afternoon.

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



Coastal Flooding

Coastal Flood Advisory: Clay, Duval, Flagler, Nassau, Palm Beach, Putnam, St. Johns, and St. Lucie



Storm Surge Watches has been CANCELLED!

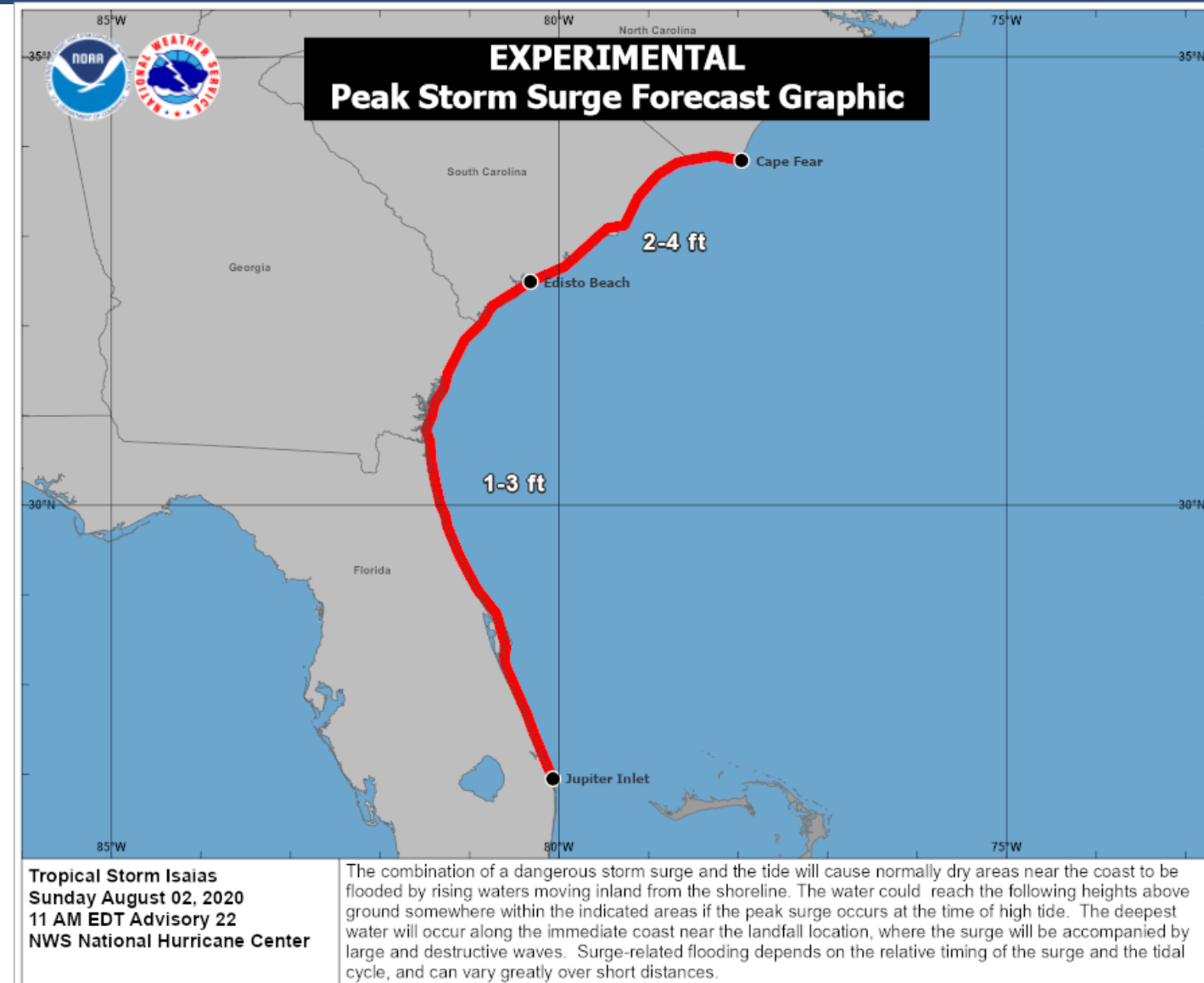
Has been replaced with a Coastal Flood Advisory for 1-3' of minor coastal flooding



Storm Surge/Coastal Flooding

Next 36 Hours

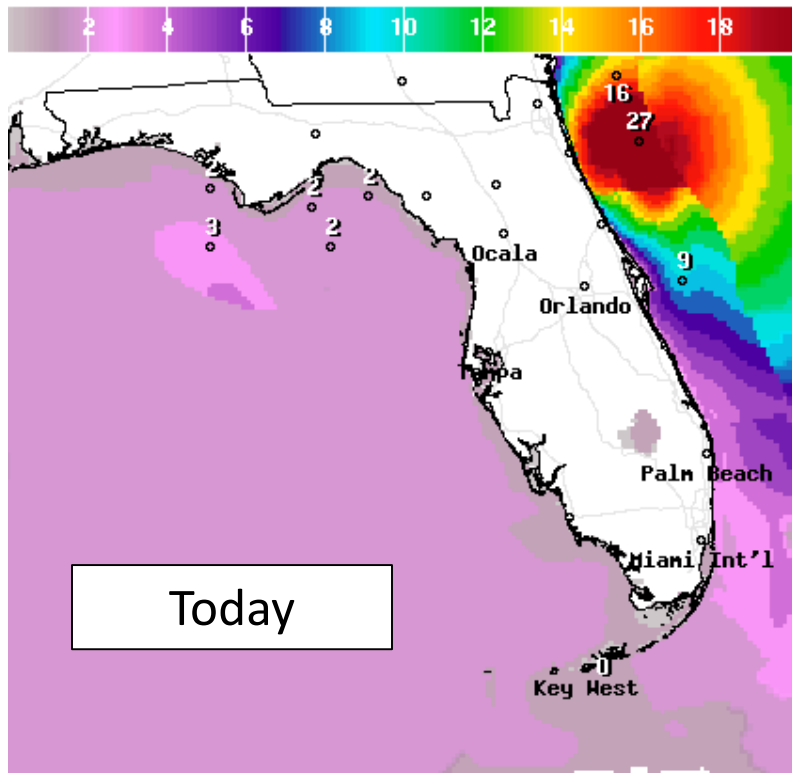
Onshore winds associated with Isaias will result in some minor coastal flooding along the Atlantic along with high surf.





Forecast Wave Heights

This Weekend

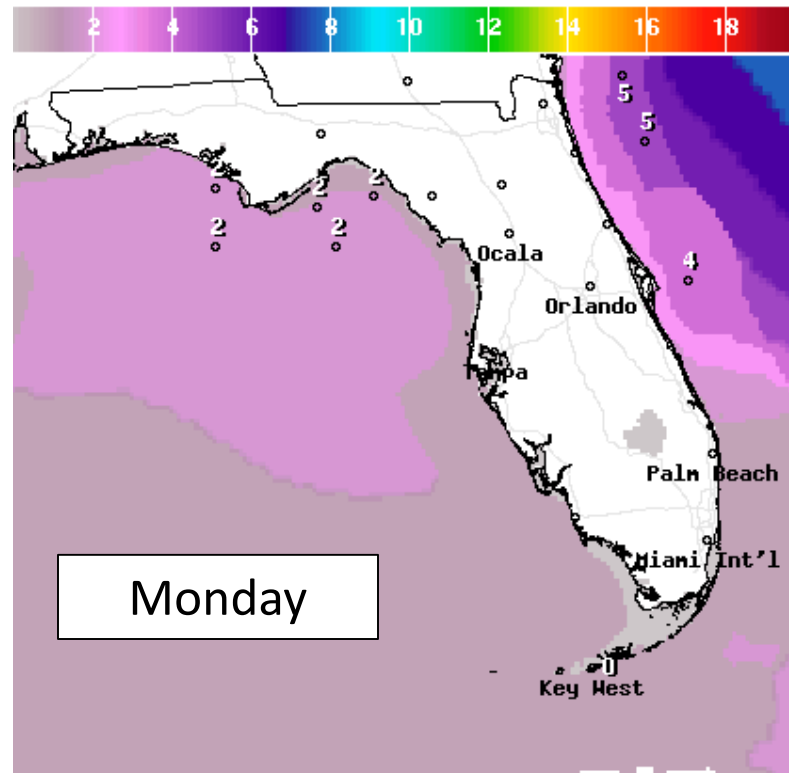


Wave Height(ft) Ending Mon Aug 03 2020 8AM EDT
(Mon Aug 03 2020 12Z)



National Digital Forecast Database

15z issuance Graphic created-Aug 02 11:20AM EDT

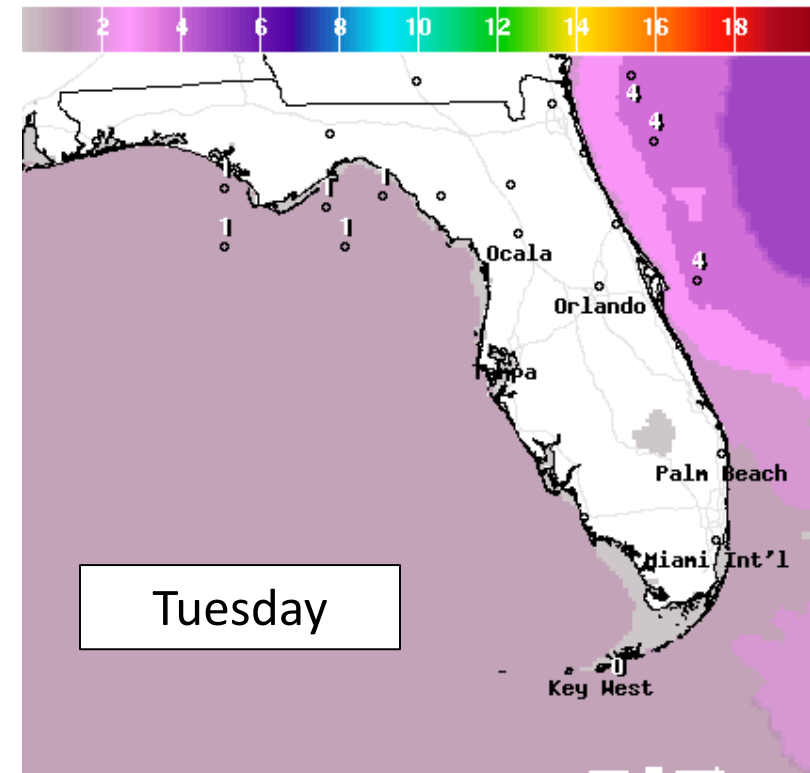


Wave Height(ft) Ending Tue Aug 04 2020 8AM EDT
(Tue Aug 04 2020 12Z)



National Digital Forecast Database

15z issuance Graphic created-Aug 02 11:21AM EDT



Wave Height(ft) Ending Wed Aug 05 2020 8AM EDT
(Wed Aug 05 2020 12Z)



National Digital Forecast Database

13z issuance Graphic created-Aug 02 9:29AM EDT



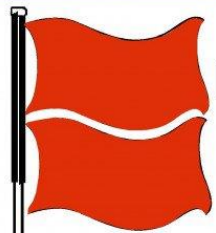
High surf of 8-12 feet is expected along East Coast beaches this weekend. This will result in dangerous rip currents. Minor to pockets of significant beach erosion is expected.



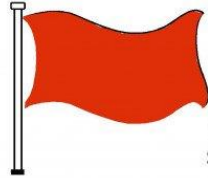
Rip Current Outlook

Today

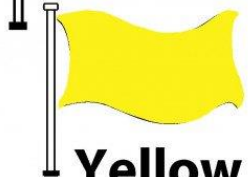
BEACH FLAG WARNING SYSTEM



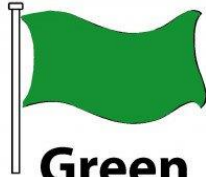
Double Red
Water Closed to
Public Use



Red
High Hazard
(rough conditions,
such as strong surf
and or currents)



Yellow
Medium Hazard
(light surf and or
currents)

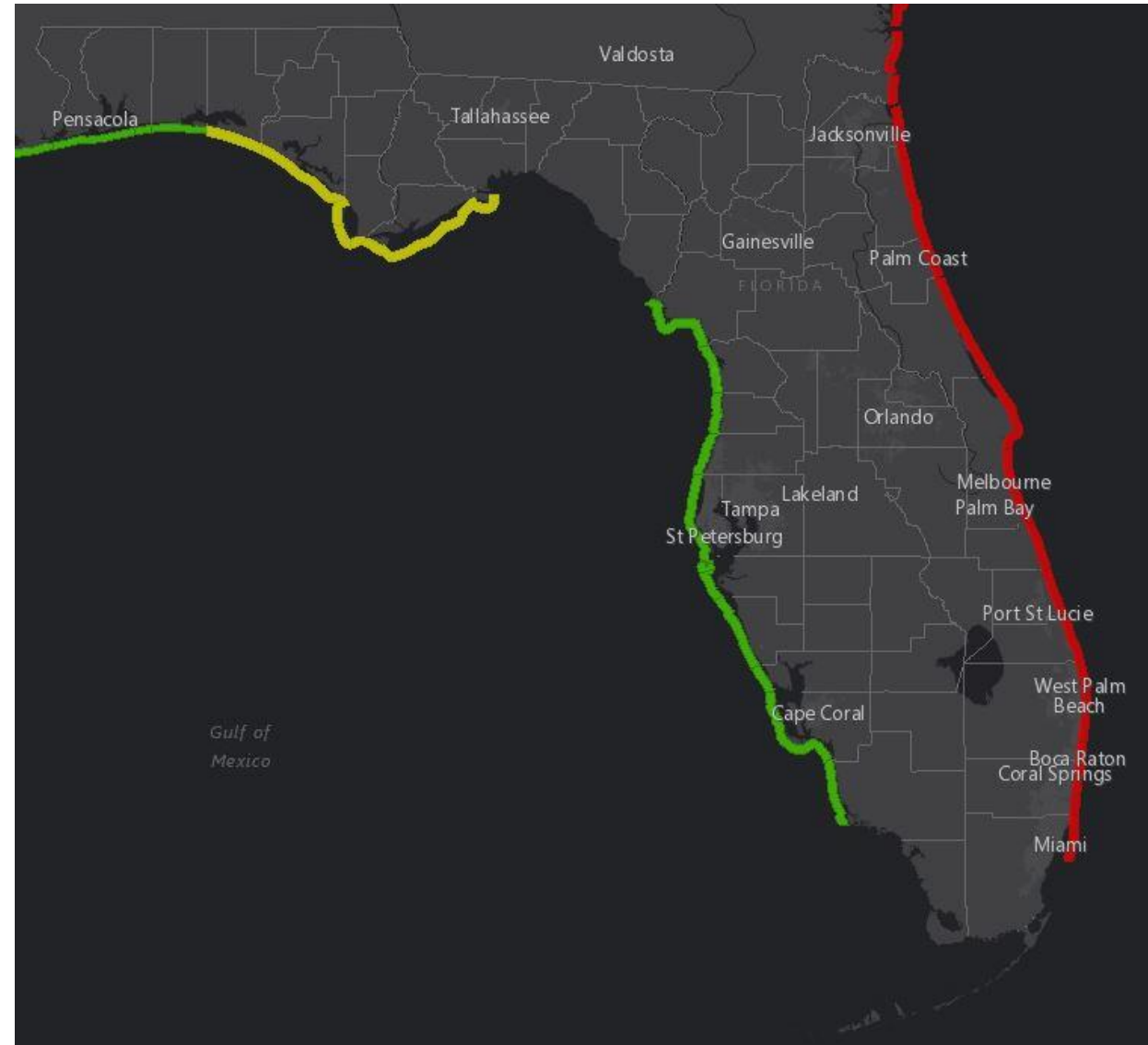


Green
Low Hazard
(calm conditions)



Purple
Marine Pest
(jellyfish, stingrays
& dangerous fish)

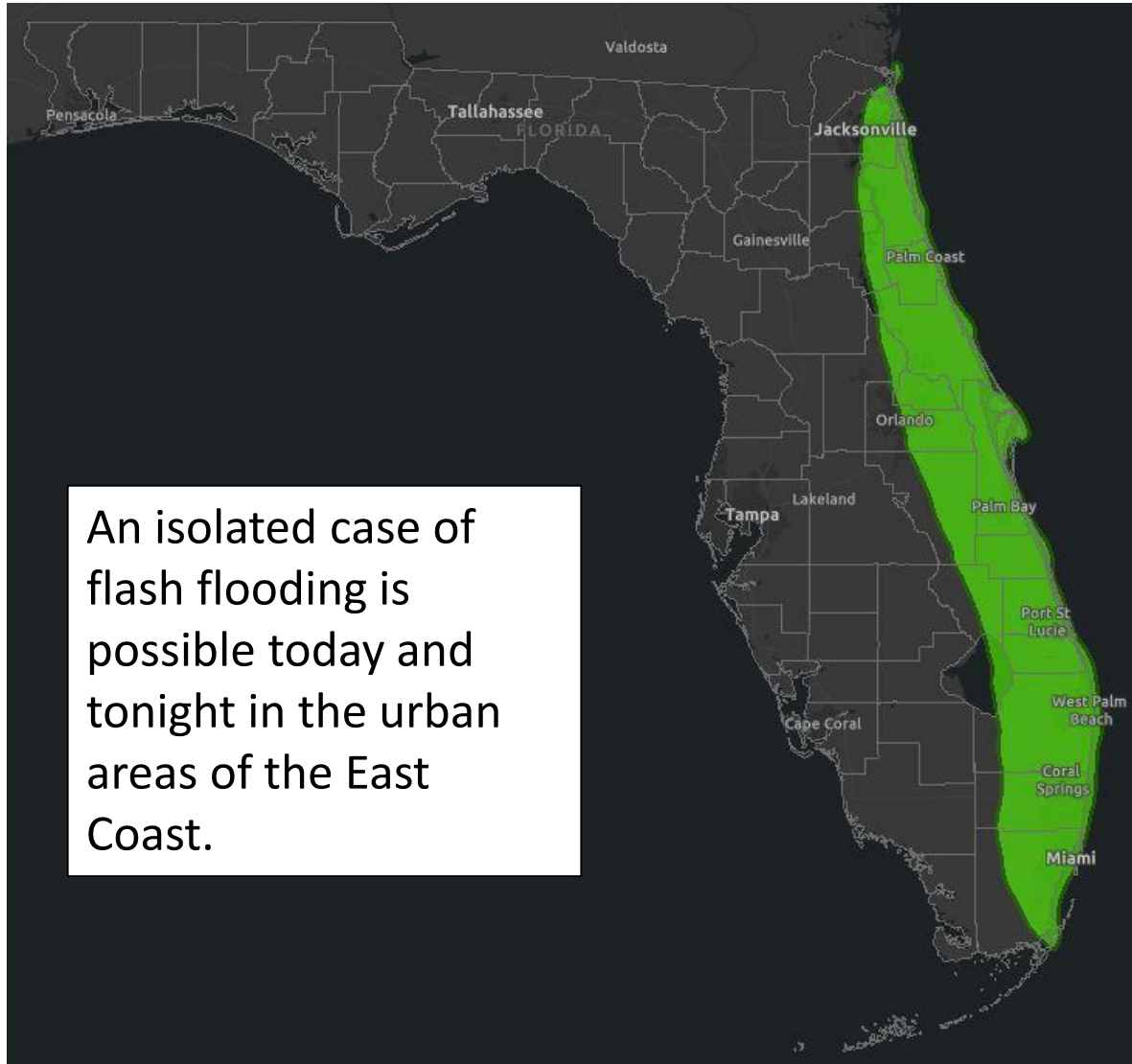
Rough surf and high water levels will keep the rip current risk high at Atlantic beaches through the weekend.











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%

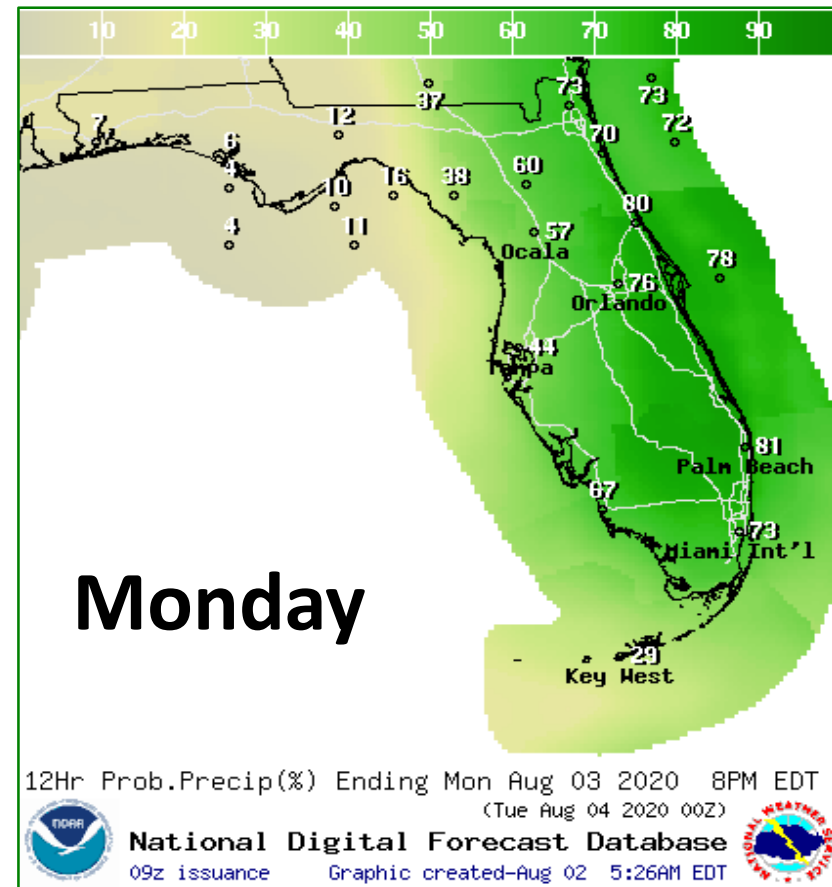
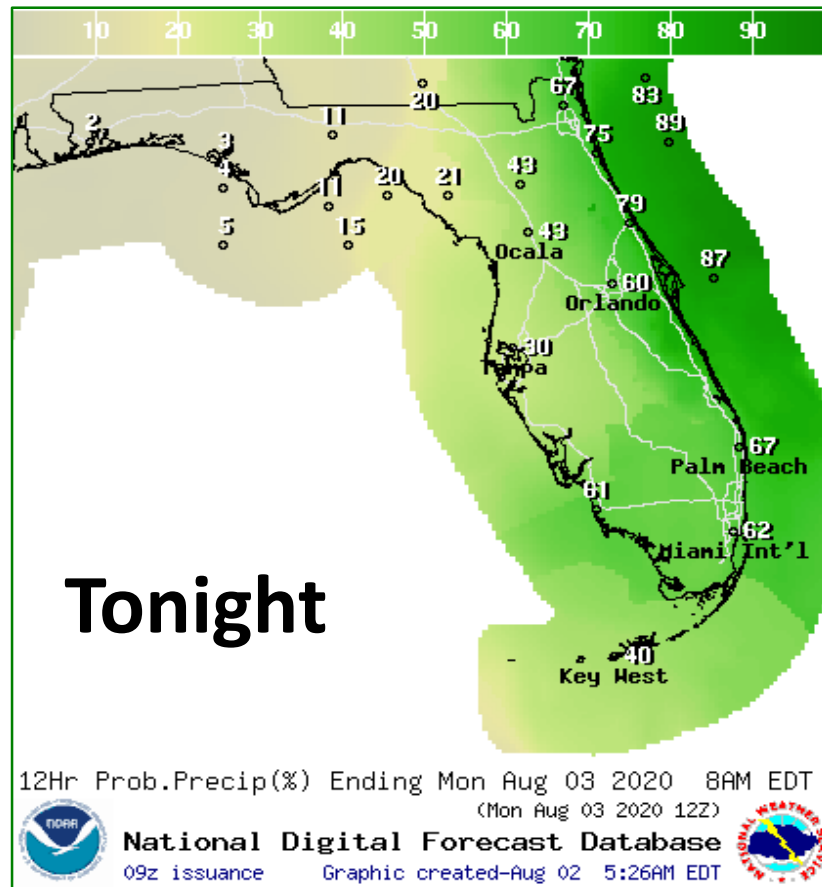
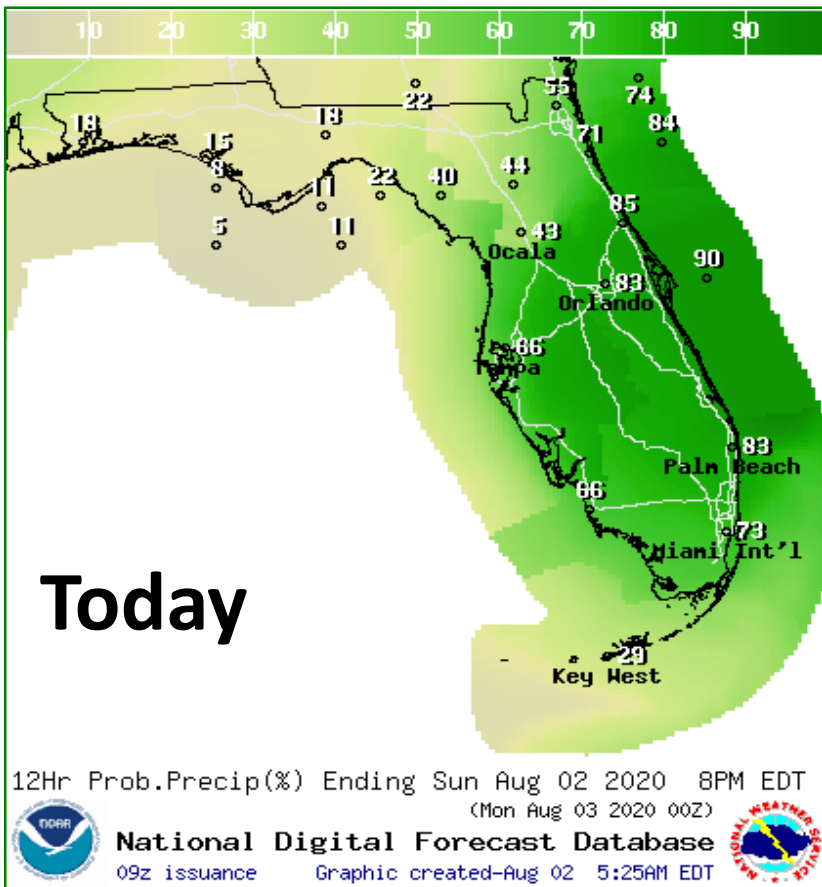
SLGT: 10%-20%

MDT: 20%-50%

MRGL: 5%-10%



Rain Chances Next 3 Days

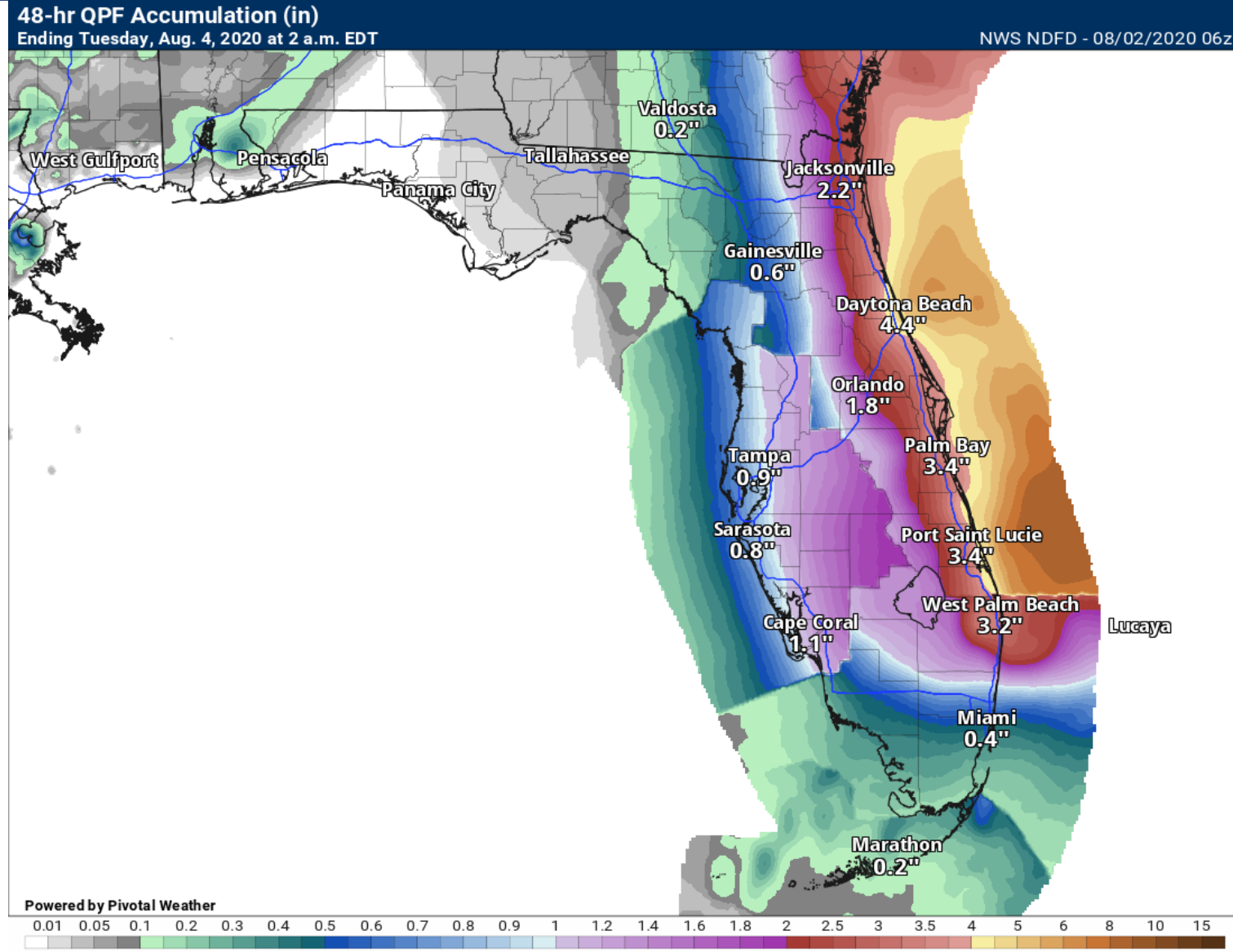


Rain bands will continue to spread northward over the Peninsula as Isaías parallels the East Coast. Even behind the system, tropical moisture will remain in place across the Peninsula on Monday.



Forecast Rainfall Totals Next 48 Hrs

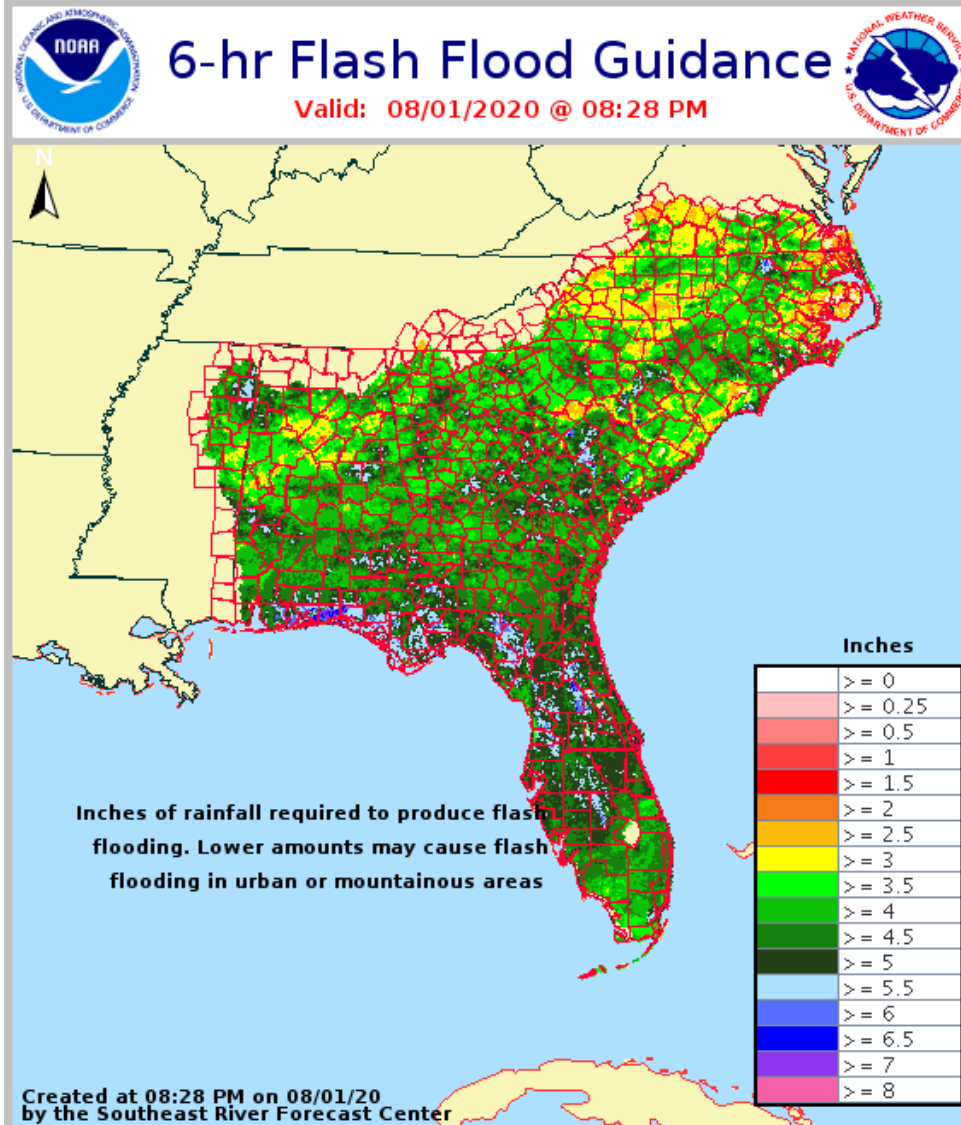
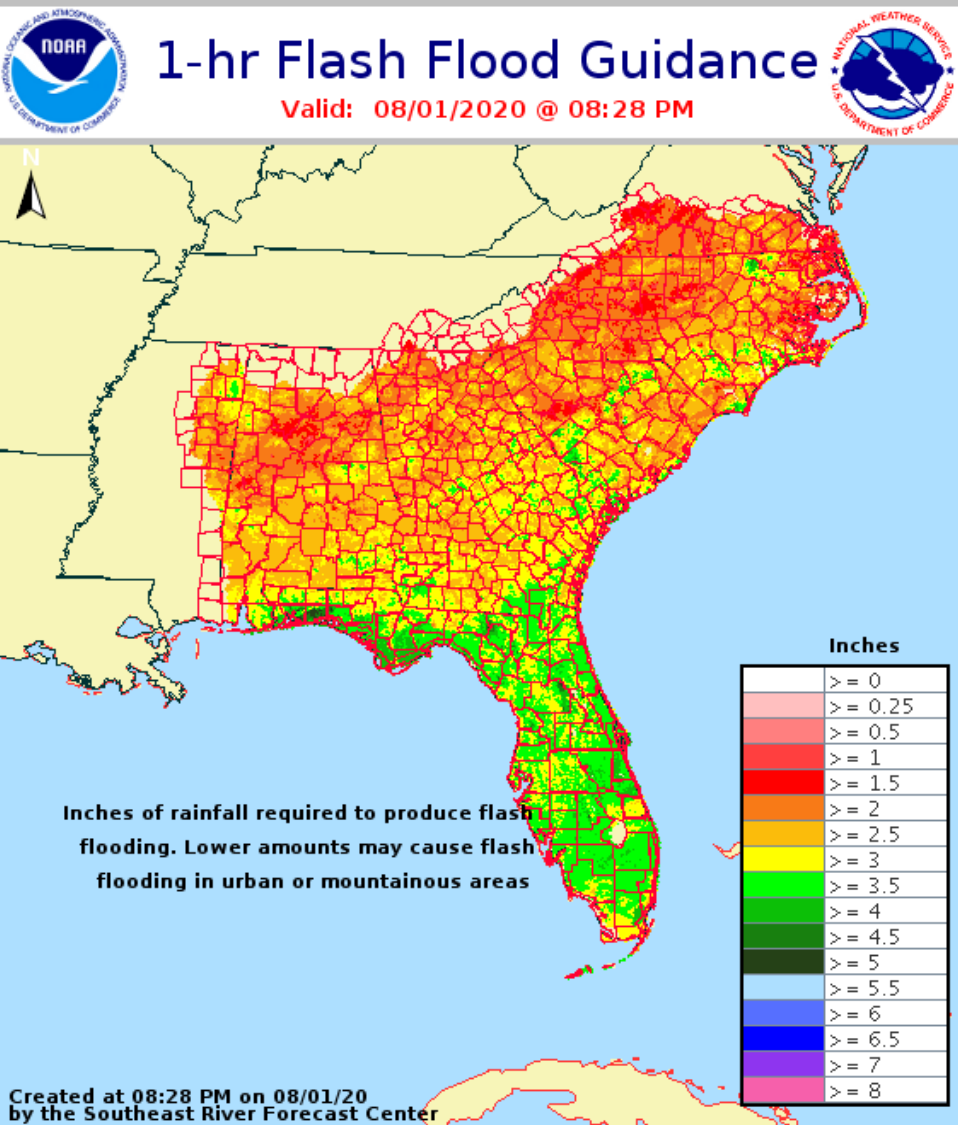
- About 2-4" of rain is forecast along the East Coast, 1-2" inland
- Localized totals double these amounts will be possible (6-8").
- Isolated flash flooding possible, especially in the urban areas along the I-95 corridor.
- The storm is much drier on the western side, and so far, most of the rain is 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

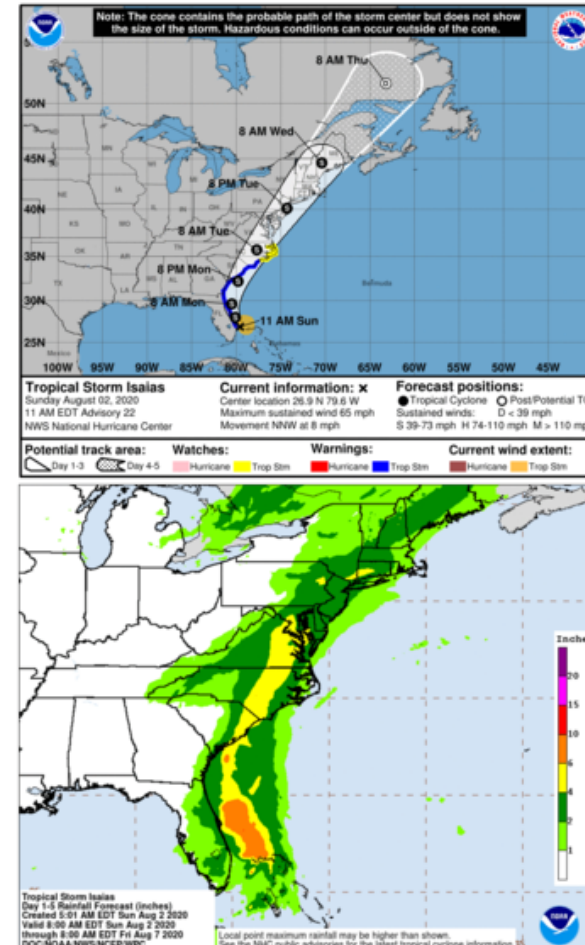


Key Messages for Tropical Storm Isaias

Advisory 22: 11:00 AM EDT Sun Aug 02, 2020



1. Tropical storm conditions will spread northward along the east coast of Florida within the warning area through early Monday and will reach the coasts of Georgia, South Carolina, and southern North Carolina within the warning area Monday and early Tuesday.
2. Dangerous storm surge is possible from Edisto Beach South Carolina to Cape Fear North Carolina where water rises of 2 to 4 feet above ground level are possible along the immediate coastline and adjacent waterways. A Storm Surge Warning may be needed for a portion of this area later today, and residents there should follow advice given by local emergency officials.
3. Heavy rainfall from Isaias will continue to result in potentially life-threatening flash flooding in the Northwest Bahamas through tonight. Flash and urban flooding, some of which may be significant in the coastal Carolinas and Virginia, is expected through midweek along and near the path of Isaias along the U.S. East Coast. Widespread minor to isolated moderate river flooding is possible across portions of the Carolinas and Mid-Atlantic.
4. A Tropical Storm Watch is in effect for portions of the North Carolina coast, where tropical storm conditions are possible on Tuesday. Additional watches and warnings will likely be issued later today as Isaias is expected to move northward near or over the mid-Atlantic and northeast coasts Tuesday and Wednesday.



For more information go to hurricanes.gov



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 have changed little in organization this morning.

However, 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.

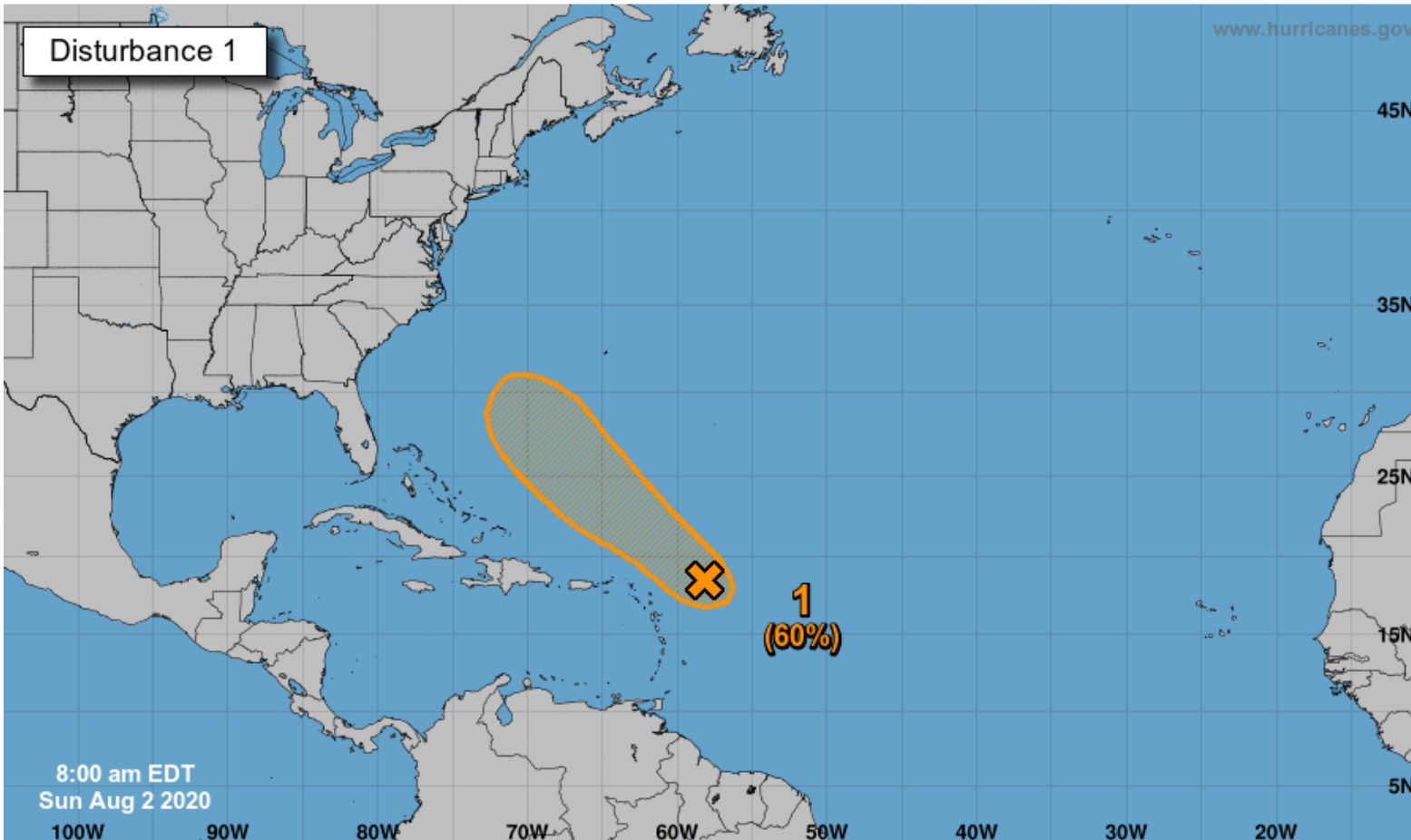
This system is forecast to turn northwestward and then northward over the western Atlantic, passing north of the Leeward Islands on Monday and Tuesday.

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: < 40% 40-60% > 60%

Tropical or Sub-Tropical Cyclone: Depression Storm Hurricane

Post-Tropical Cyclone or Remnants

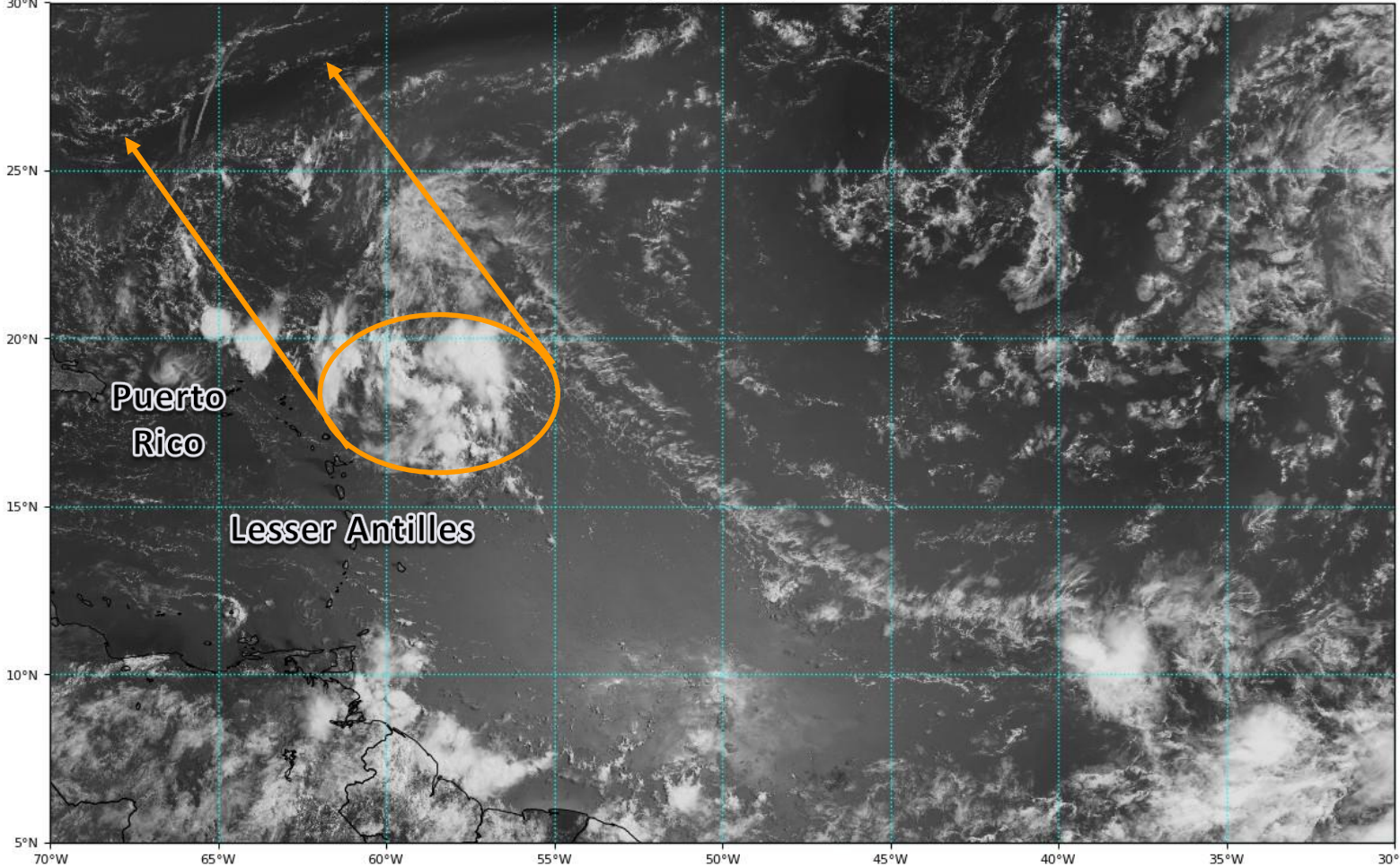


Satellite Imagery

Central Atlantic – Tropical Wave (60%)

GOES-16 Channel 2 (visible) / Channel 7 (shortwave IR) [Day/Night] at 13:45Z Aug 02, 2020

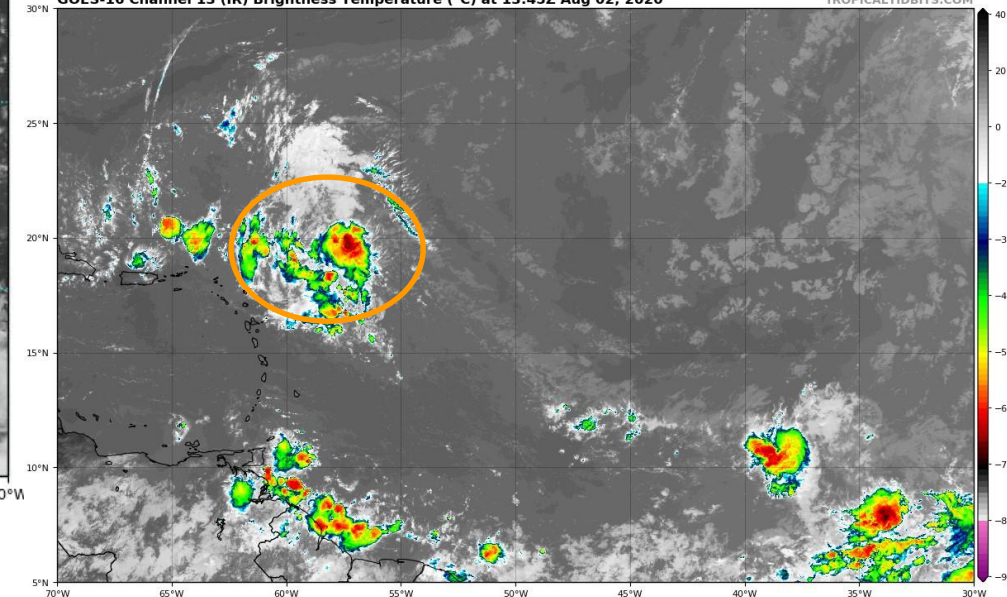
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A tropical wave is moving to the northwest and will take time to organize. Dry air will be the main limiting factor for development, but shower activity has gradually increased over the last 24-36 hours. Odds are increasing this will organize into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

GOES-16 Channel 13 (IR) Brightness Temperature (°C) at 13:45Z Aug 02, 2020

TROPICALTIDBITS.COM

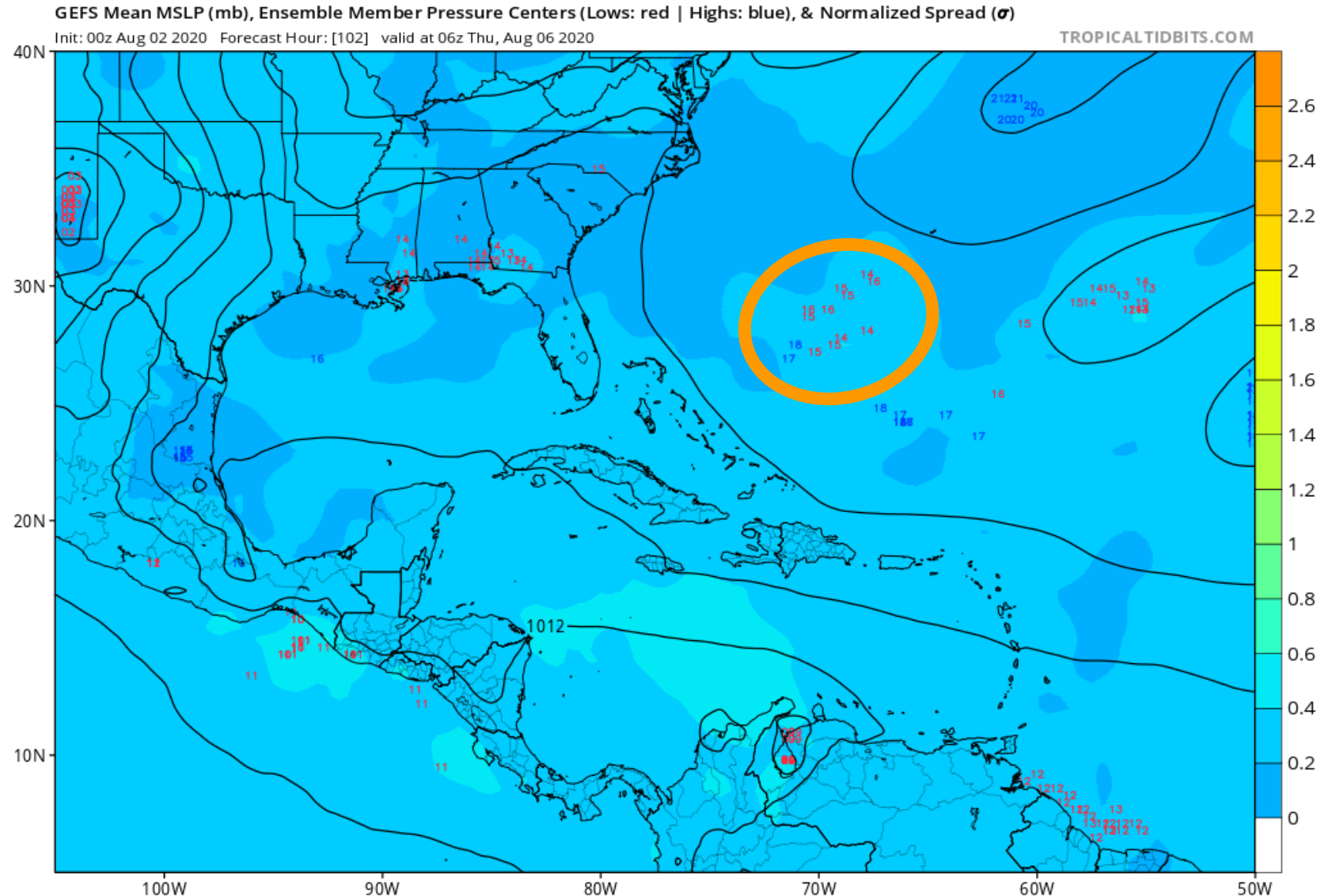




Model Forecast Tracks

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 55 miles east of Fort Pierce, moving north-northwest at 8 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.

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.**
- **Coastal Flood Advisory:** Clay, Duval, Flagler, Nassau, Palm Beach, Putnam, St. Johns, and St. Lucie
- **Tropical Storm Warning:** Brevard, coastal Duval, coastal Flagler, Indian River, Martin, coastal Nassau, coastal St. Johns, St. Lucie, and coastal Volusia
- Wind gusts from 40-65 mph are generally forecast in the tropical storm warning area with sustained winds at 30-50 mph
- 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.
- River flooding is not expected.
- Isolated tornadoes may be possible, especially along the immediate East Coast.
- Minor coastal flooding is expected along the Atlantic coast, the Intercostal Waterway, and the lower St. Johns River as tides will run 1-3' above normal today and tonight
- Elevated surf, dangerous rip currents, and pockets of significant beach erosion will be likely at all Atlantic beaches today and tonight.

The next briefing packet will be issued later this afternoon with the 5 PM 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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