



TROPICAL UPDATE



5:00 AM EDT

Saturday, August 1, 2020

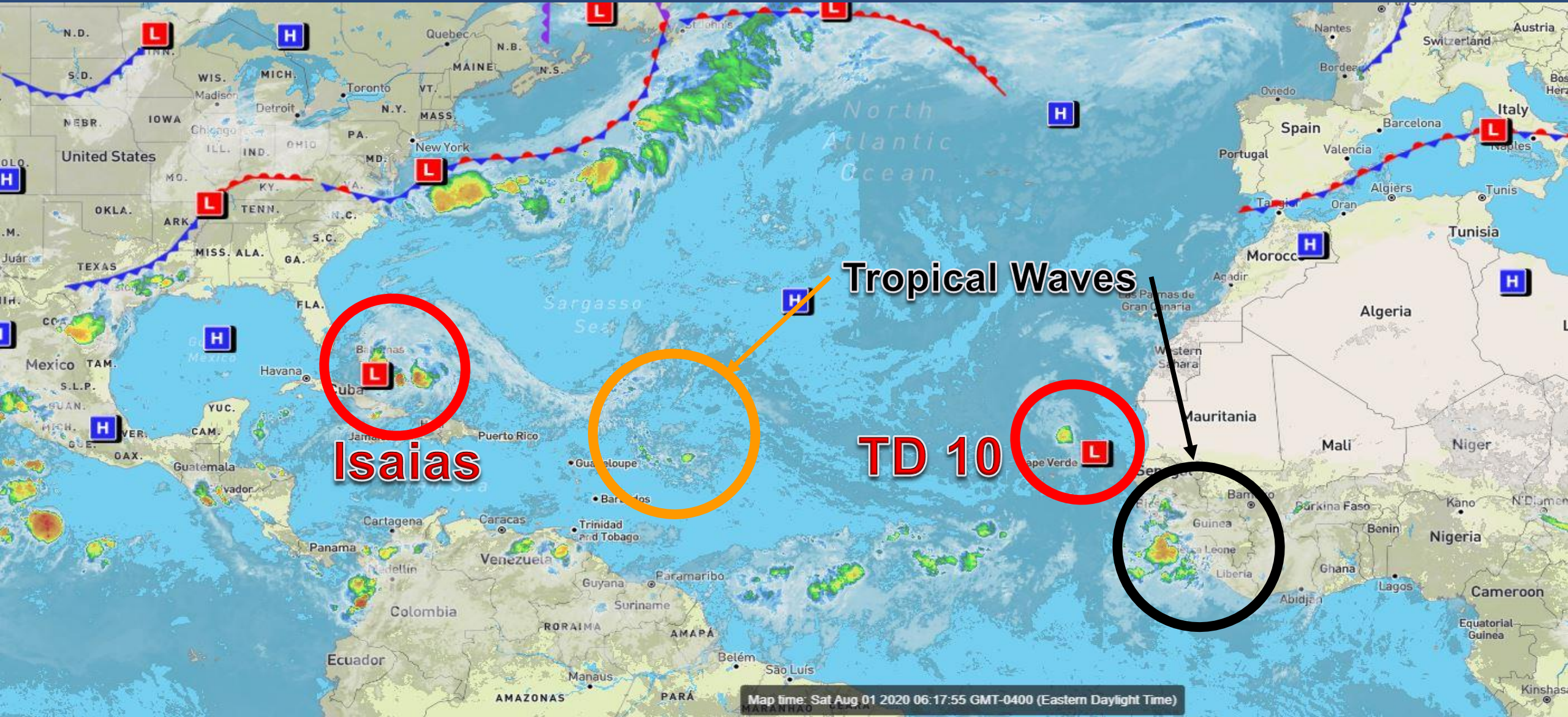
Hurricane Isaias, Tropical Depression #10,
& Central Atlantic Tropical Wave (60%)

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



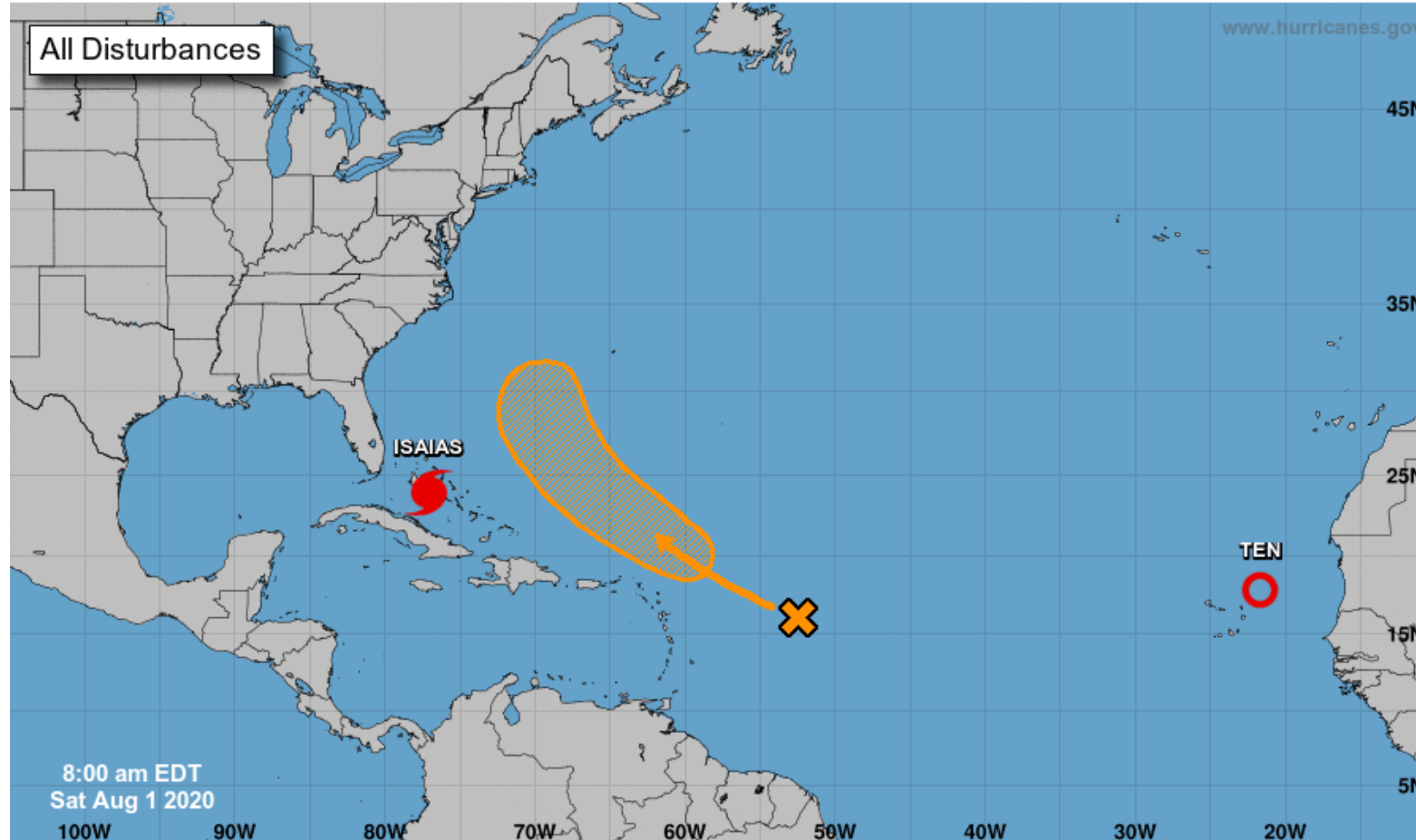


Tropical Weather Outlook

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

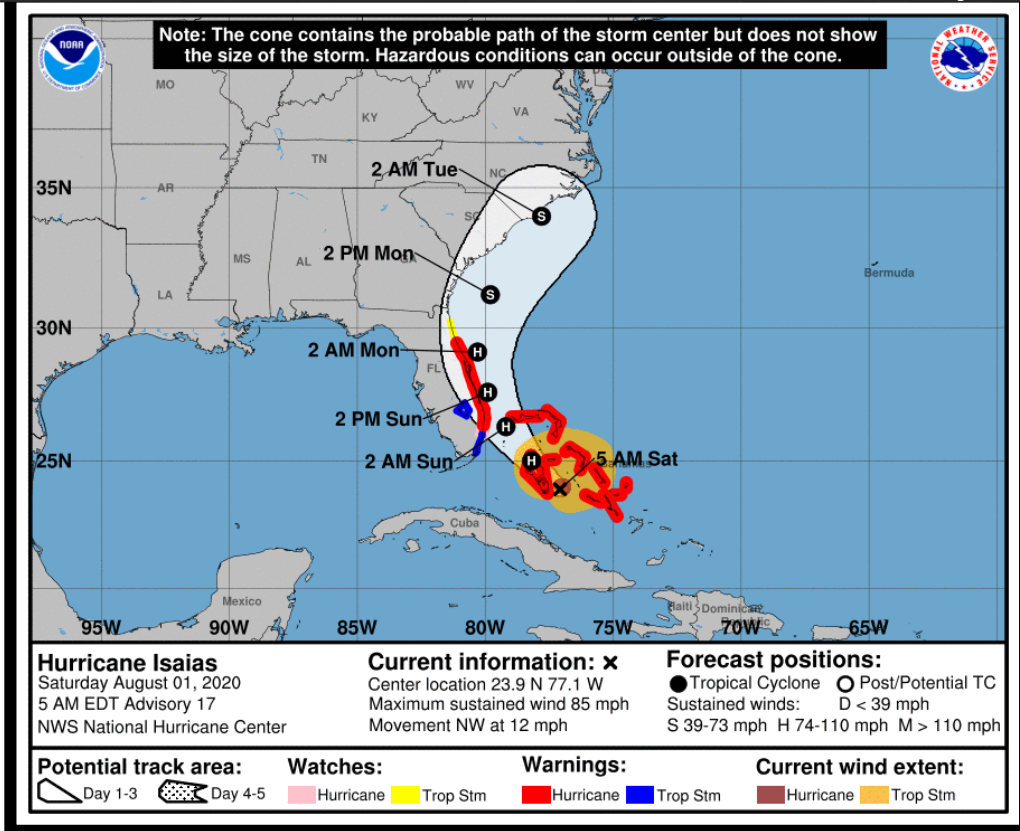
Post-Tropical Cyclone or Remnants

Hurricane Isaias Saturday, August 1

	MINIMAL	Low	MODERATE	HIGH	EXTREME
 WINDS					
 STORM SURGE					
 FLASH FLOODING					
 TORNADOES					

	Low	MODERATE	HIGH
 RIP CURRENTS			

National Hurricane Center Map



Overview/Recent Changes:

Isaias is maintaining strength as a Category 1 hurricane (85 mph) and moving to the northwest at 12 mph (slowing down). Some small fluctuations in strength are possible over the next 48 hours as Isaias parallels the East Coast of Florida. Hurricane Warnings and Storm Surge Watches remain in effect for the East Coast.

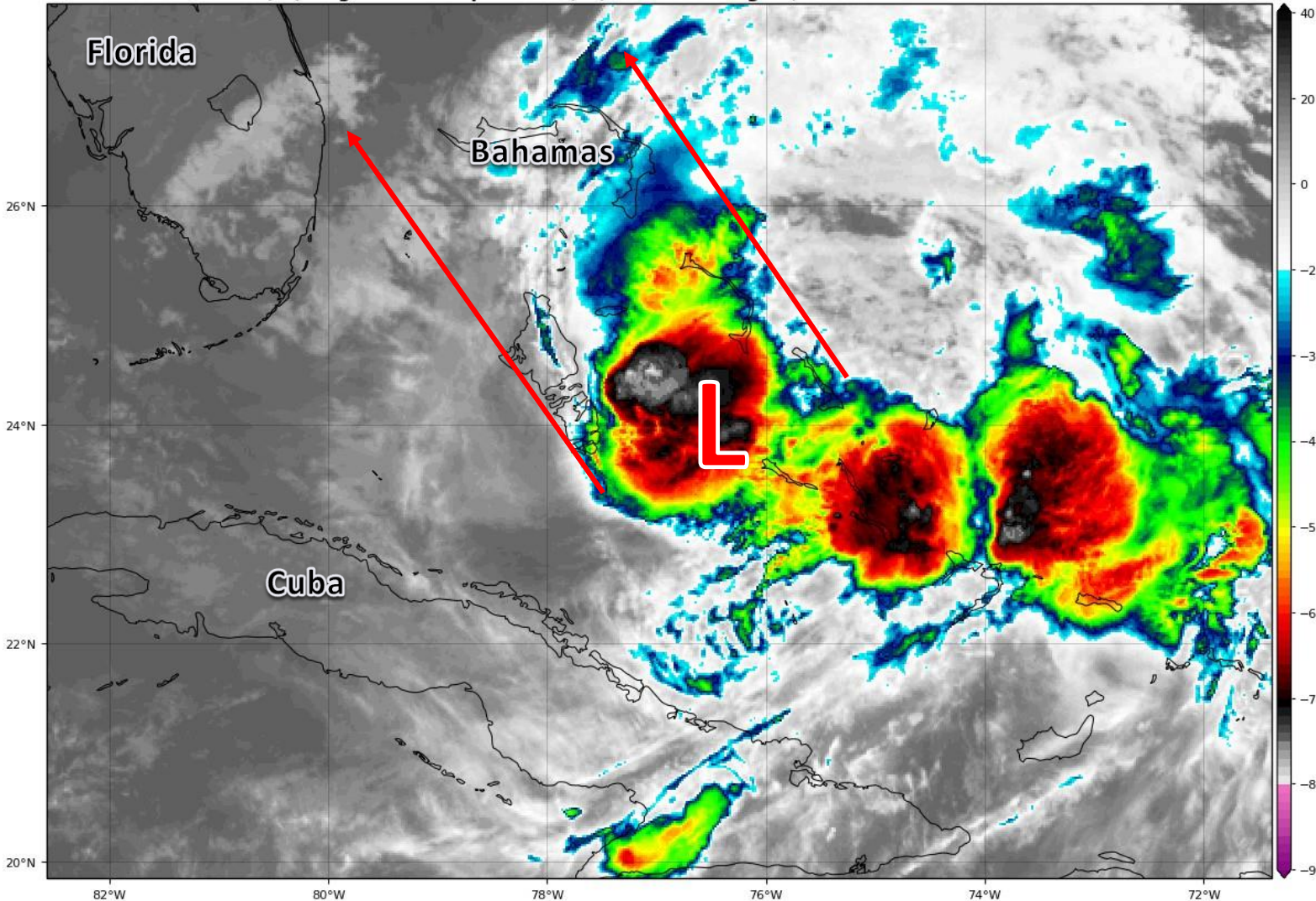


Satellite Imagery

Southwest Atlantic – Hurricane Isaias

GOES-16 Channel 13 (IR) Brightness Temperature (°C) at 10:37Z Aug 01, 2020

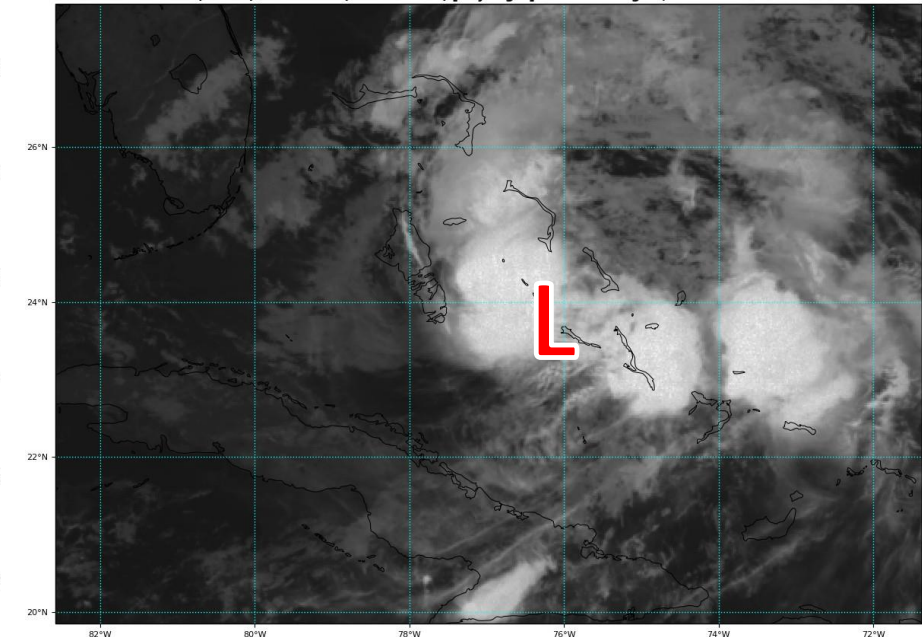
TROPICALTIDBITS.COM



Isaias is not looking healthy this morning, with only a small area of thunderstorms near the center. The majority of the showers and thunderstorms are displaced to the east due to the ongoing wind shear and some dry air that has wrapped into the circulation.

GOES-16 Channel 2 (visible) / Channel 7 (shortwave IR) [Day/Night] at 10:22Z Aug 01, 2020

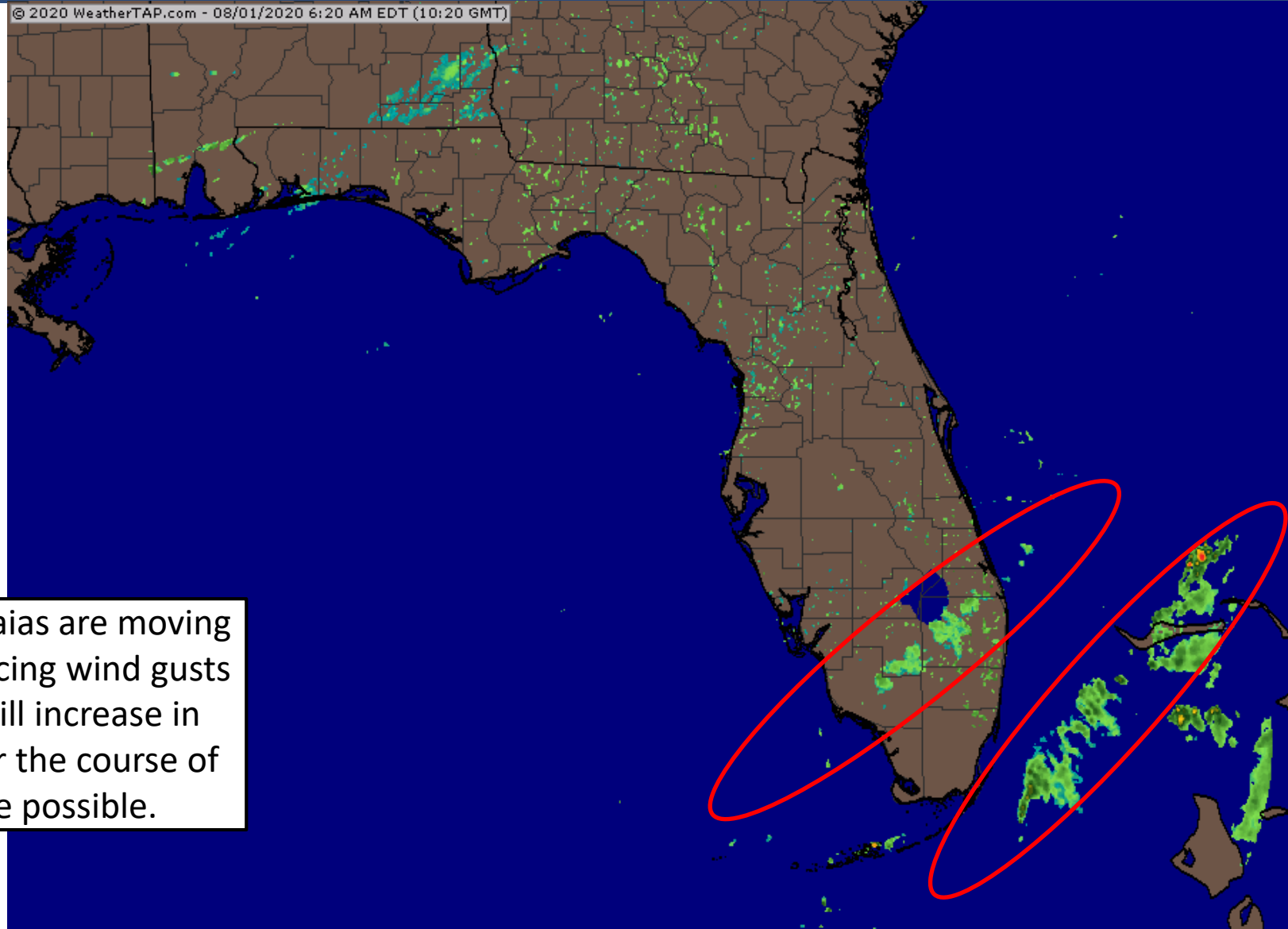
TROPICALTIDBITS.COM





Current Florida Radar

As of 6:20 AM ET / 05:20 AM CT

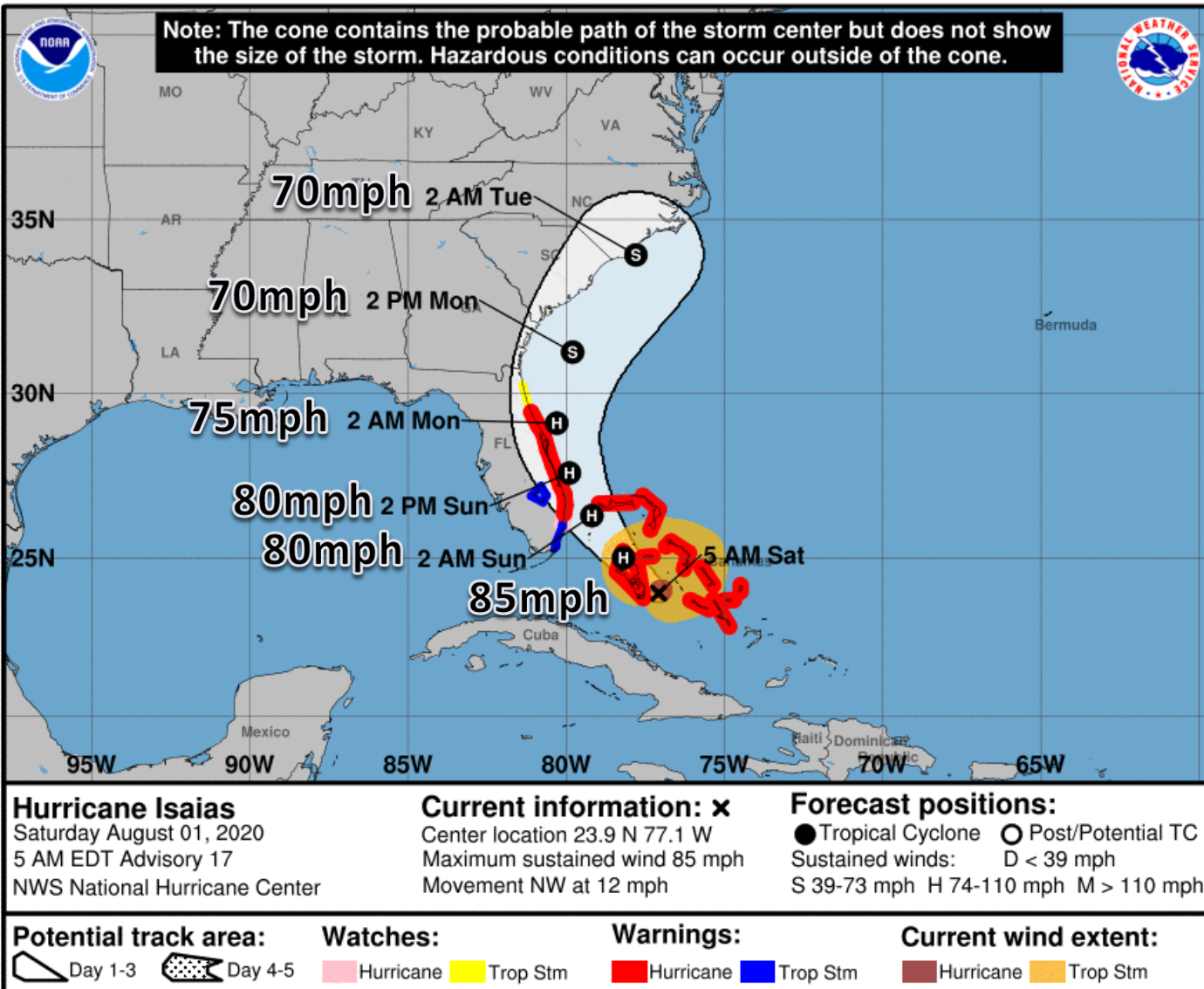


The outer rain bands from Isaias are moving into Southeast Florida producing wind gusts around 20-30 mph. They will increase in frequency and intensity over the course of the day. Waterspouts are possible.



Official Forecast Track

From the National Hurricane Center – Hurricane Isaias



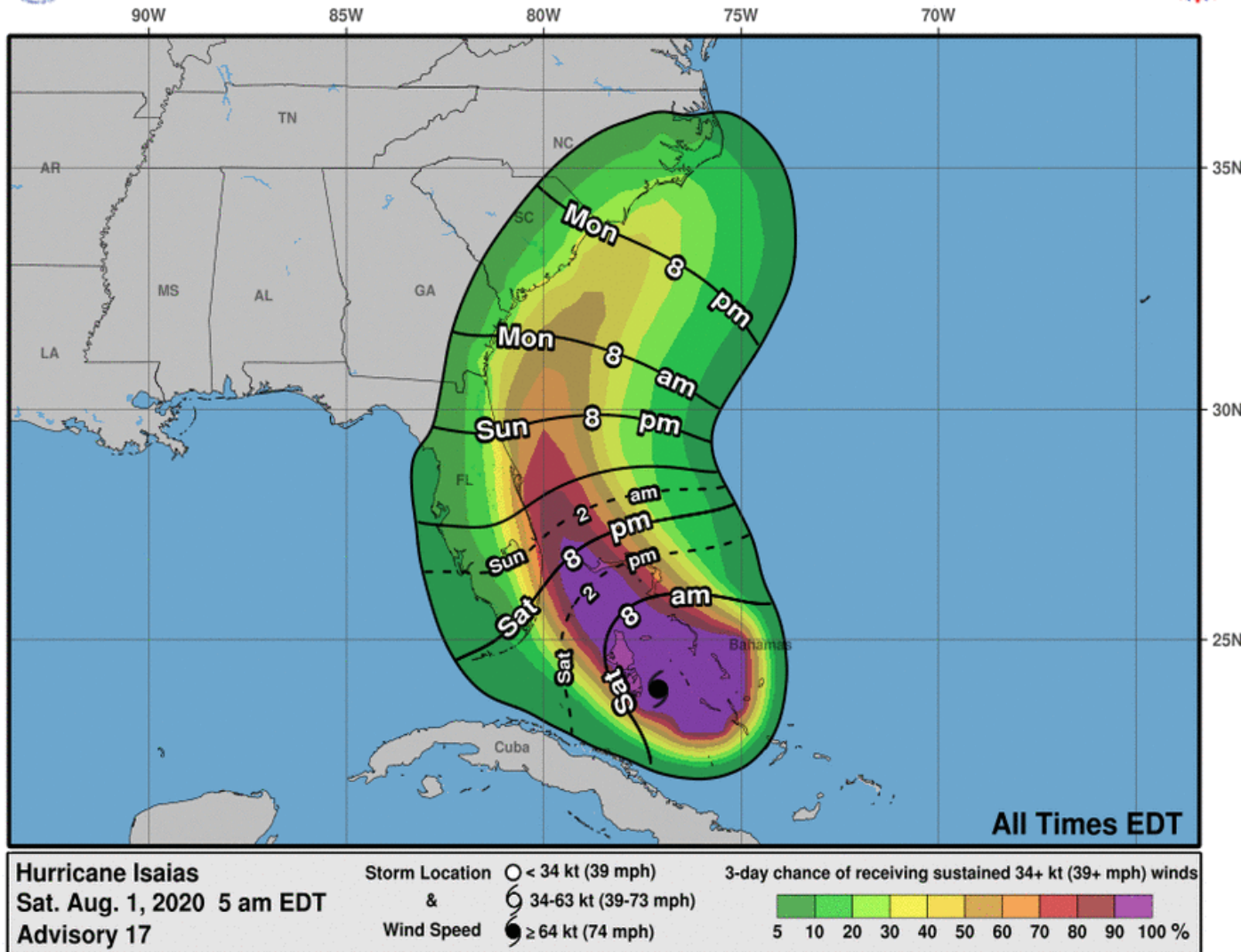
- The center of Hurricane Isaias is about 250 miles southeast of Miami, Florida, moving to the NW at 12 mph.
- Maximum sustained winds are around 85 mph, making it a category 1 hurricane.
- Little change in strength is forecast, with gradual weakening the most likely outcome as Isaias tracks northwest.
- The system will parallel the Florida East Coast Saturday night through Monday afternoon, either just offshore or just inland.
- Hurricane Watches/Warnings, Tropical Storm Watches/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 Most Likely Arrival Time of Tropical-Storm-Force Winds



Key West: 7% (-1)
Miami: 25% (-14)
Naples: 11% (-5)
Ft. Lauderdale: 61% (-9)
West Palm Beach: 75% (-2)
Ft. Pierce: 72% (+0)
Daytona Beach: 35% (+2)
Orlando: 26% (-6)
Tampa: 10% (-3)
Jacksonville: 13% (-1)

The most likely chance of tropical storm force winds starting will be this afternoon in Southeast Florida, and after midnight in East Central Florida.



Damaging Wind Threat Overview

Hurricane Isaias

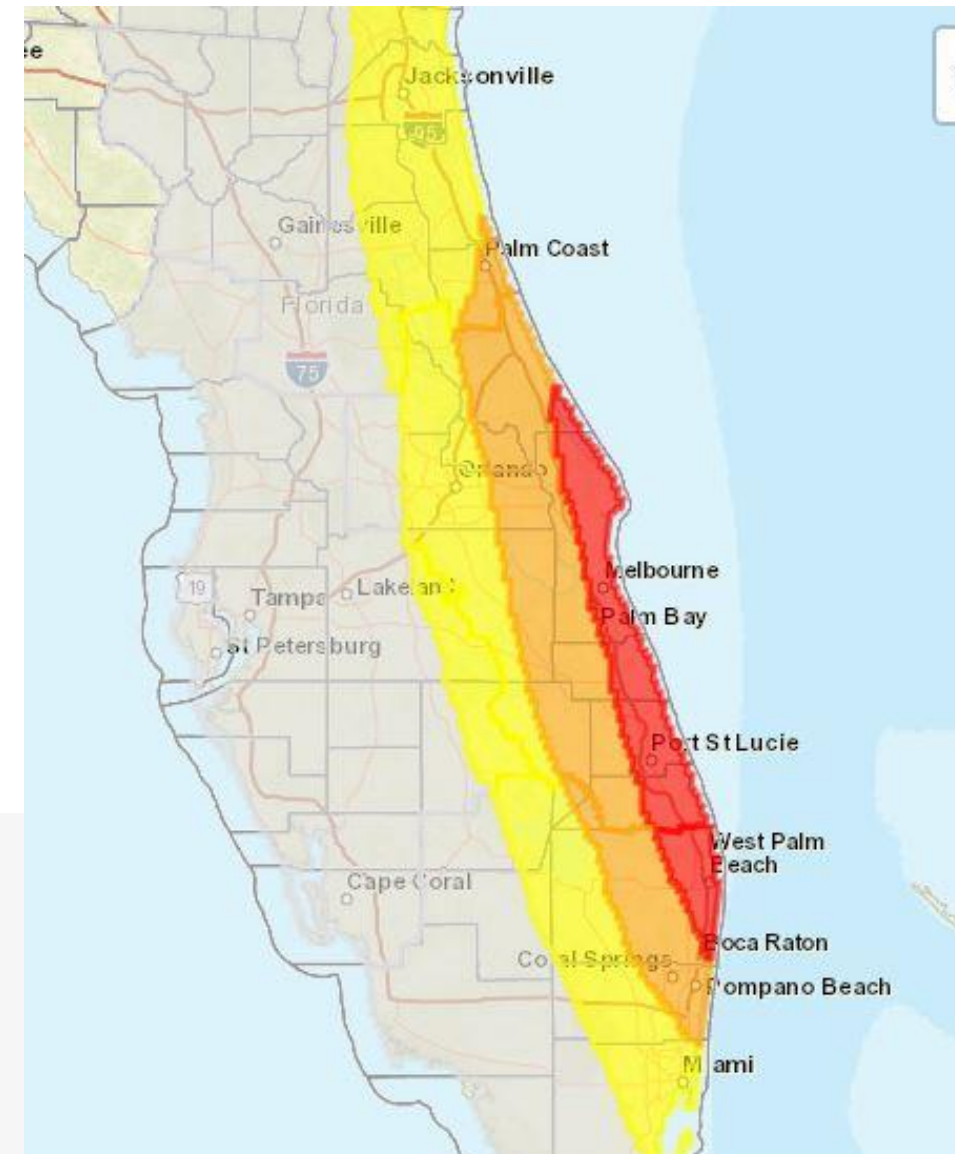
The greatest wind threat is along the immediate coast (Space & Treasure Coast) of the Peninsula, mainly along and east of I-95.

Higher gusts to 75 mph may be possible Saturday night and Sunday 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



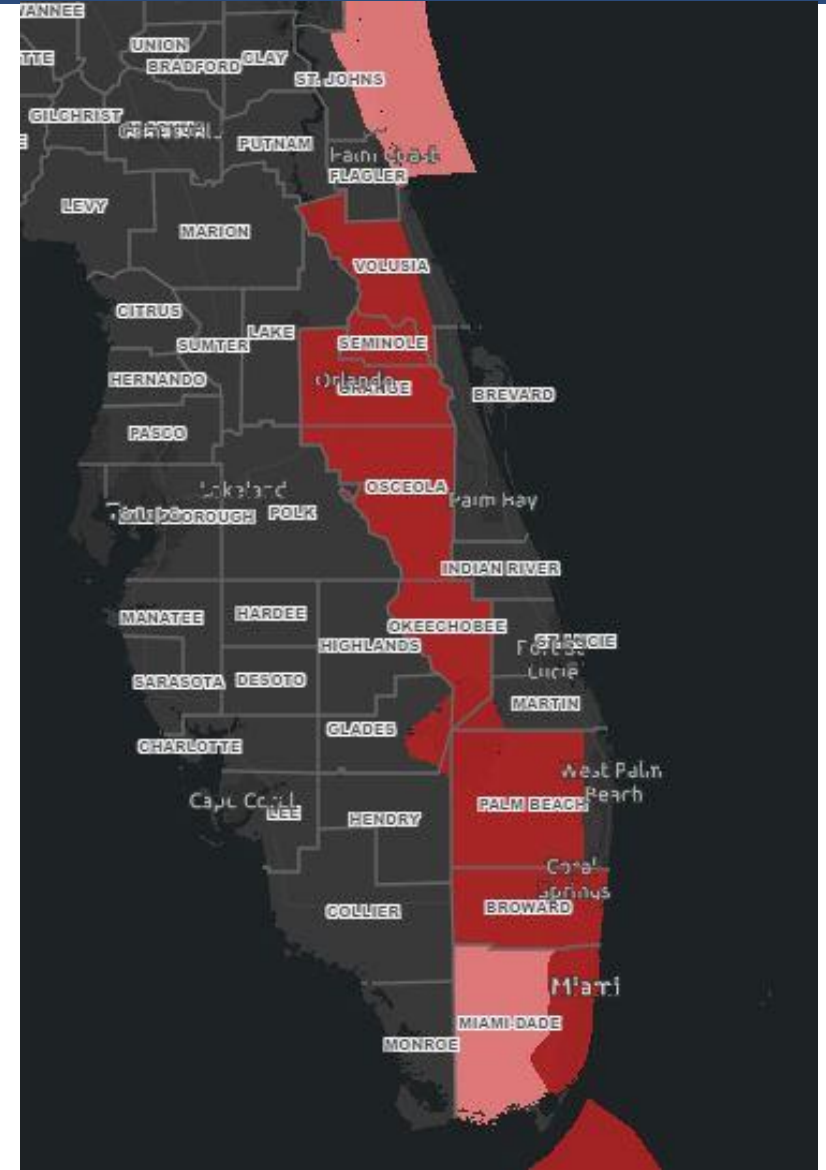


Wind Watches and Warnings

In Effect Until Further Notice

Tropical Storm Warnings are in effect for:
inland Volusia, Seminole, Orange, Osceola,
Okeechobee, Inland Palm Beach, Broward,
coastal/metro Miami-Dade (Tropical
Storm conditions LIKELY)

Tropical Storm Watches are in effect for:
coastal St. Johns, coastal Flagler, inland
and far south Miami-Dade (Tropical Storm
conditions POSSIBLE)



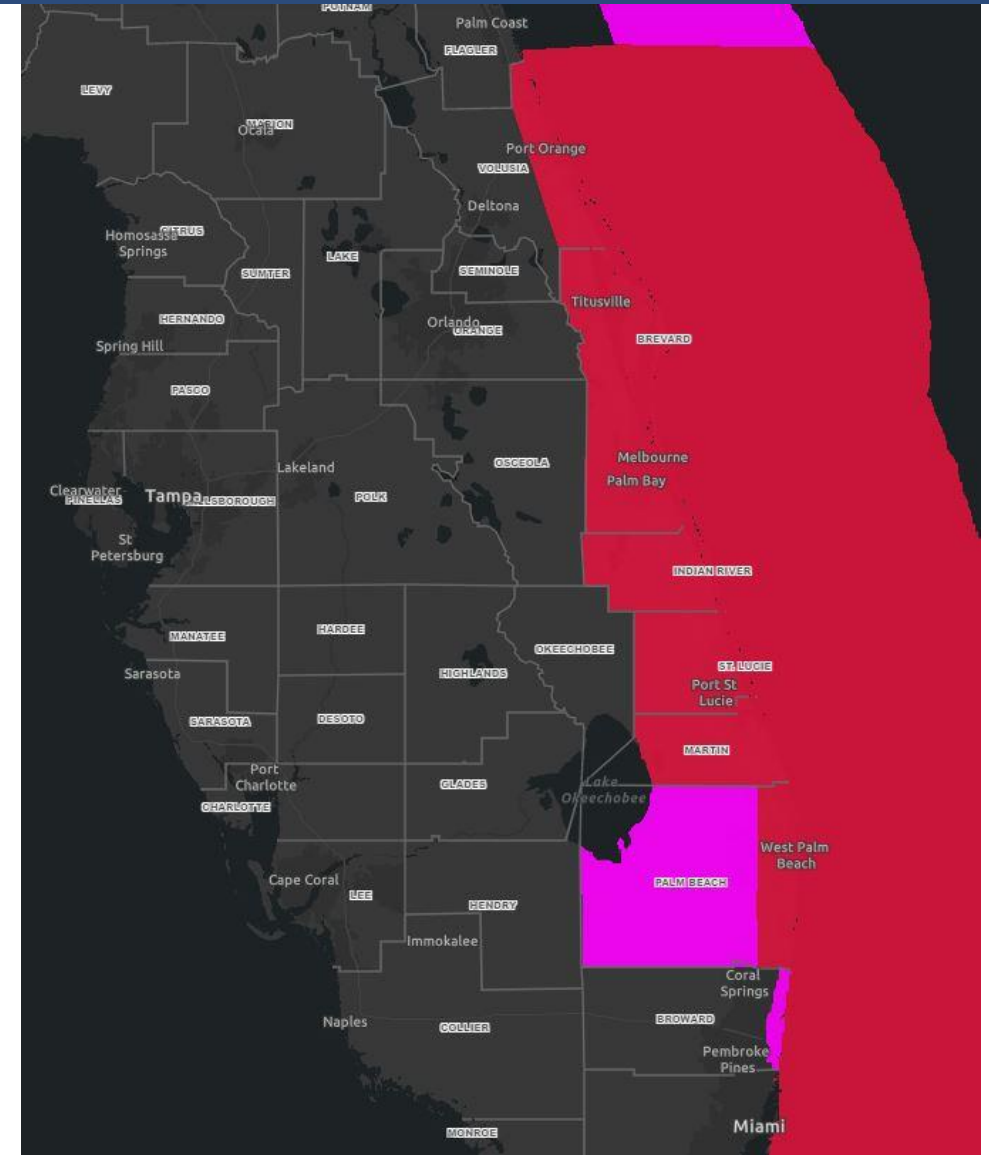


Wind Watches and Warnings

In Effect Until Further Notice

Hurricane Warnings are in effect for:
coastal Volusia, Brevard, Indian River,
Martin, St. Lucie, coastal/metro Palm
Beach. (hurricane conditions LIKELY)

Hurricane Watches are in effect for:
inland Palm Beach and coastal Broward.
(hurricane conditions POSSIBLE).



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

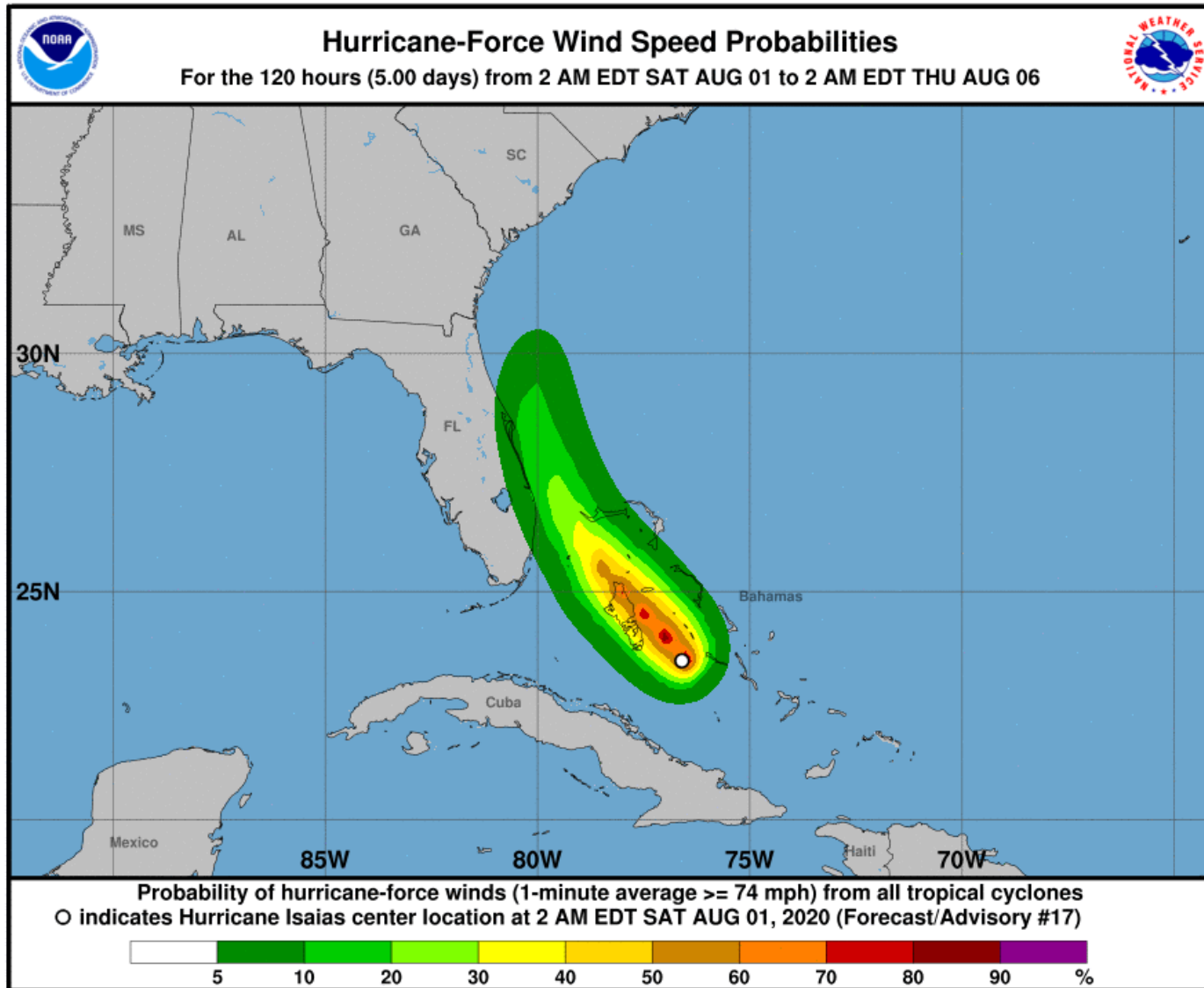


weather.gov/mob



Hurricane Wind Speed Probabilities

Probabilities of Sustained Hurricane Force Winds (>74 mph)



5-10% along the Treasure & Space Coast of seeing sustained hurricane force winds.

Higher chance of seeing gusts to near hurricane force.



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.

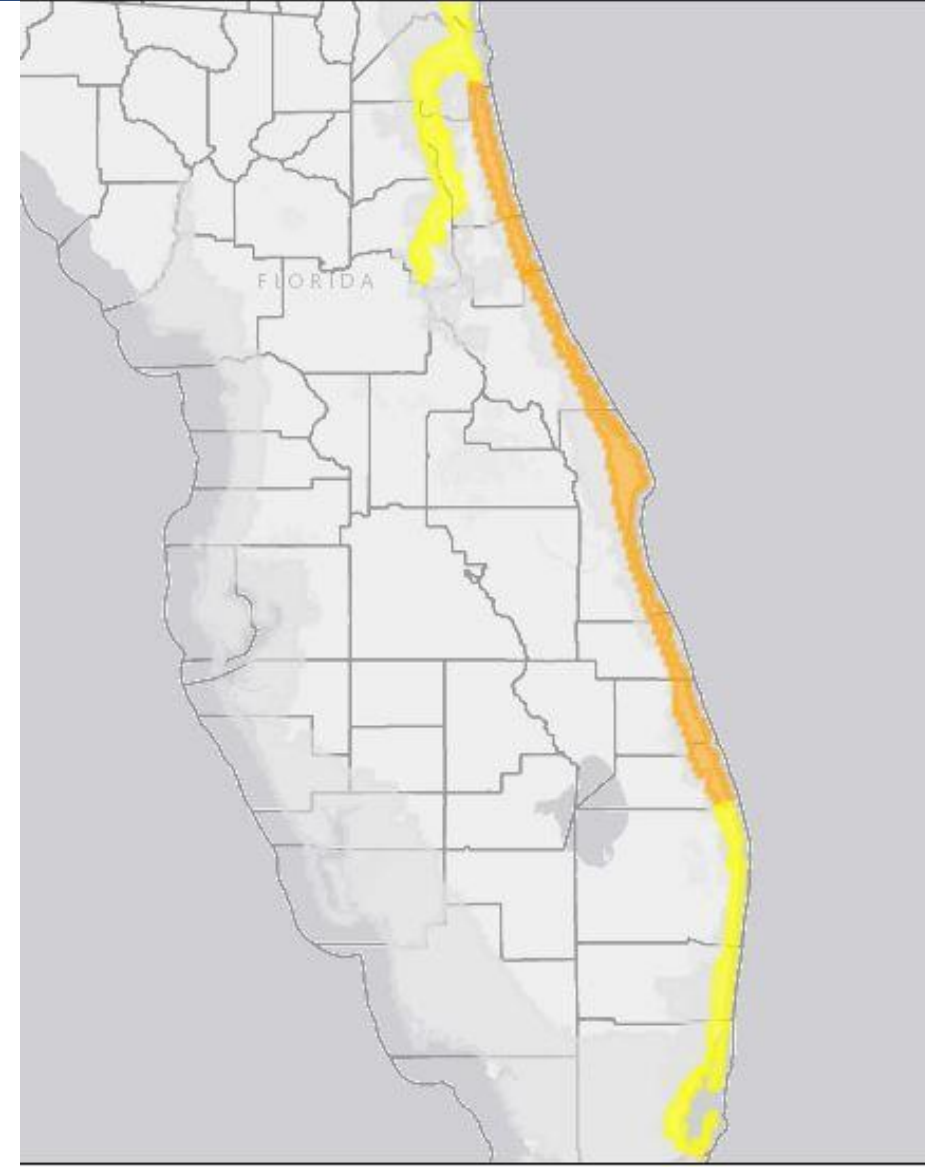
Across East-Central and Northeast Florida, from Martin to St. Johns County, 2-4' of storm surge is possible.

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](https://www.weather.gov/srh/tropical?office=mfl)

Click on "Threats and Impacts" Tab





Surge Watches and Warnings

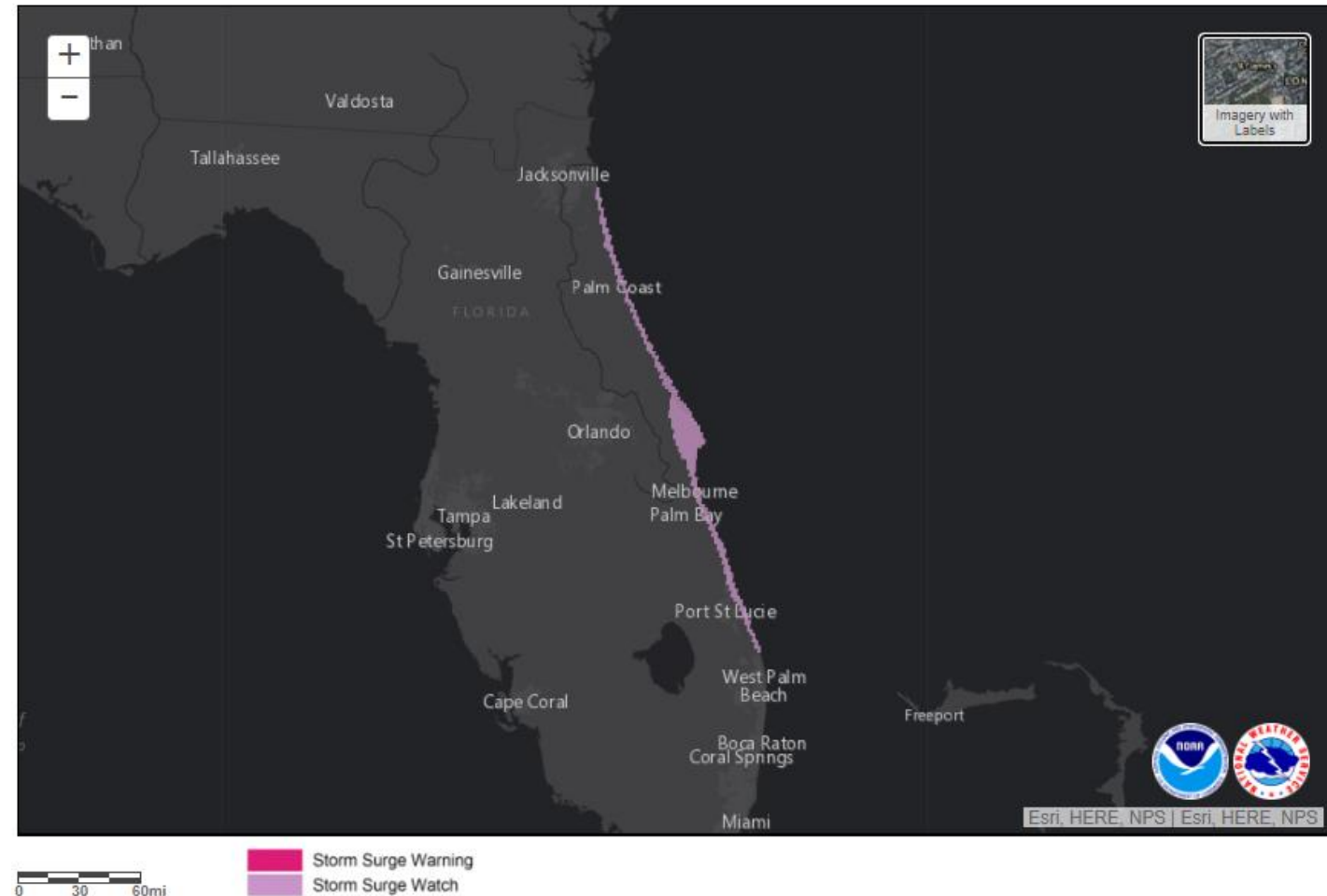
In Effect Until Further Notice

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

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

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

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



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.

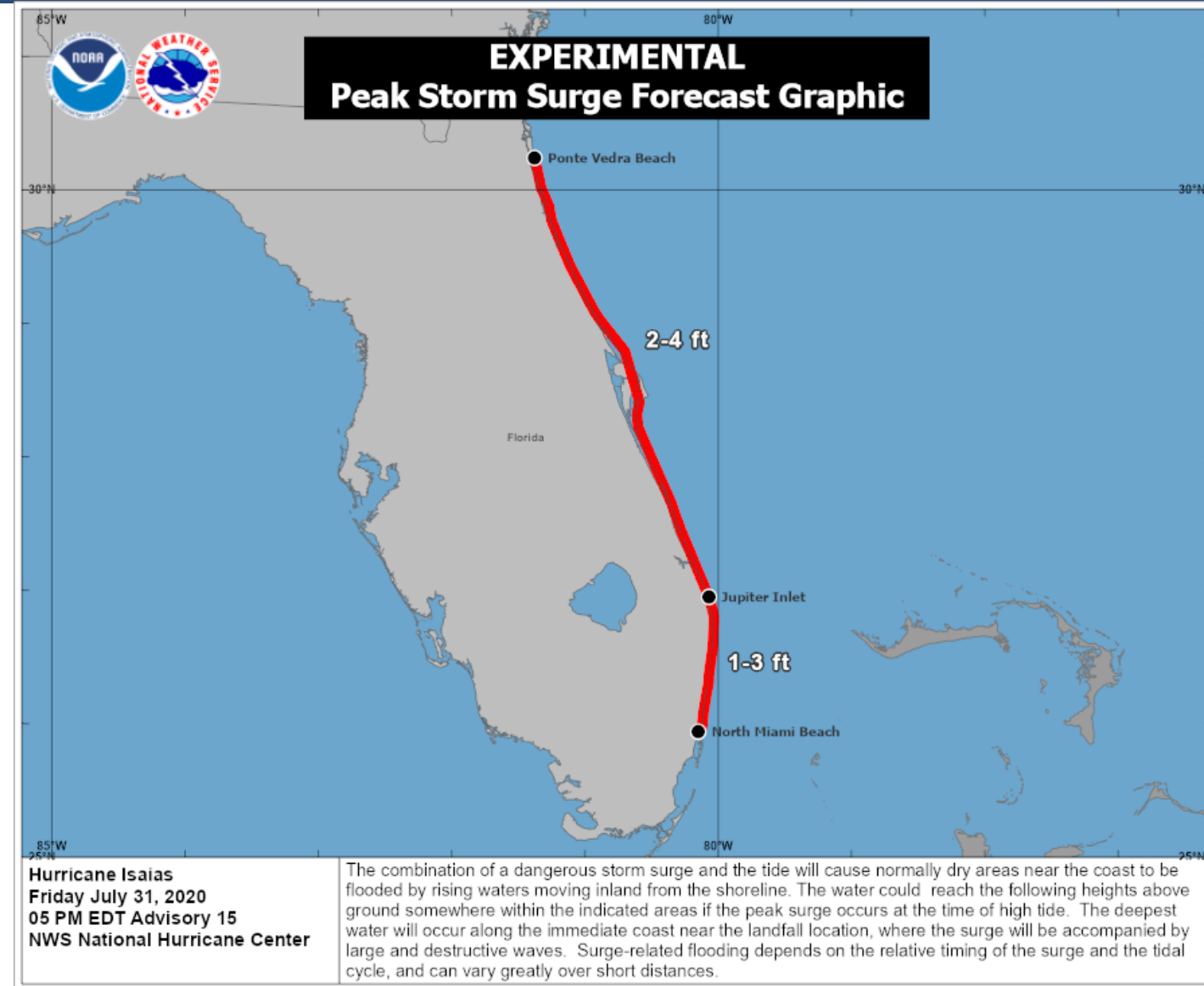




Storm Surge/Coastal Flooding

This Weekend

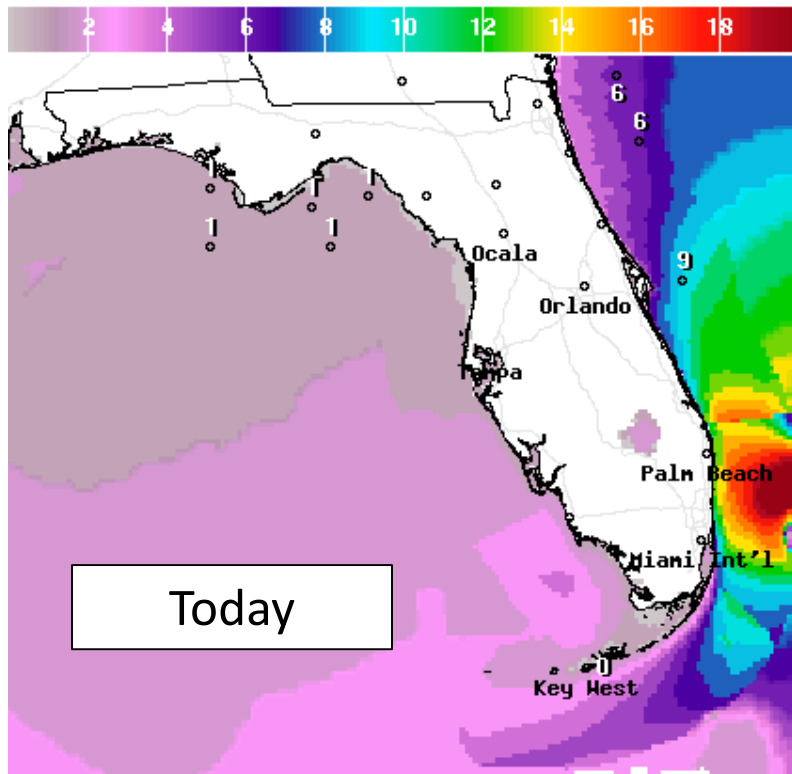
Onshore winds associated with Isaias will result in some minor coastal flooding along the Gulf Coast along with high surf. 2-4' of storm surge is expected along much of the East Coast of Florida with 1-3' in far Northeast Florida and Southeast Florida.





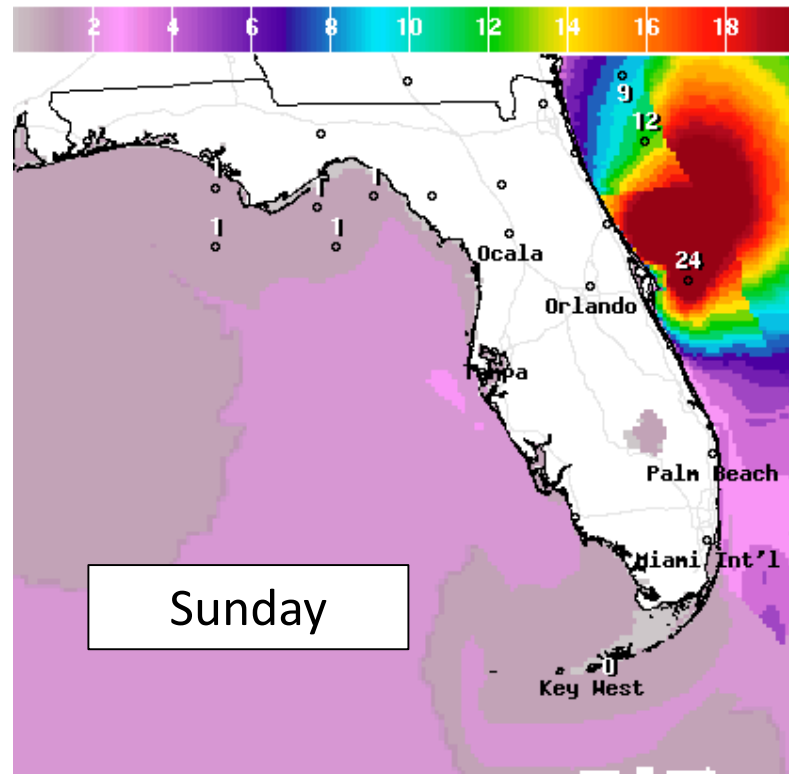
Forecast Wave Heights

This Weekend



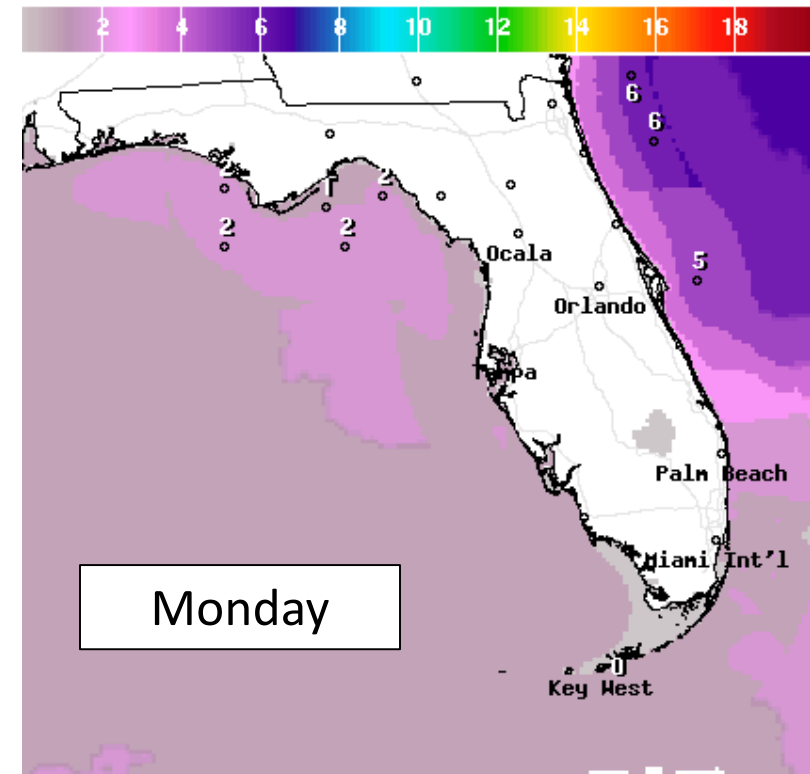
Today

Wave Height(ft) Ending Sat Aug 01 2020 8PM EDT
(Sun Aug 02 2020 00Z)
National Digital Forecast Database
10z issuance Graphic created-Aug 01 6:31AM EDT



Sunday

Wave Height(ft) Ending Sun Aug 02 2020 8PM EDT
(Mon Aug 03 2020 00Z)
National Digital Forecast Database
10z issuance Graphic created-Aug 01 6:31AM EDT



Monday

Wave Height(ft) Ending Mon Aug 03 2020 8PM EDT
(Tue Aug 04 2020 00Z)
National Digital Forecast Database
10z issuance Graphic created-Aug 01 6:32AM EDT

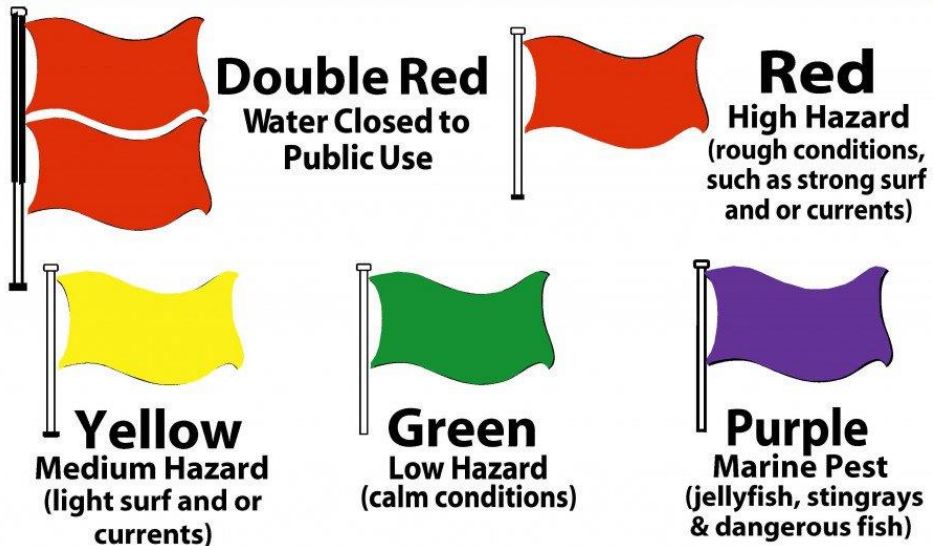
High surf of 8-12 feet is expected along East Coast beaches this weekend. This will result in dangerous rip currents. Minor to pockets of significant beach erosion is expected.



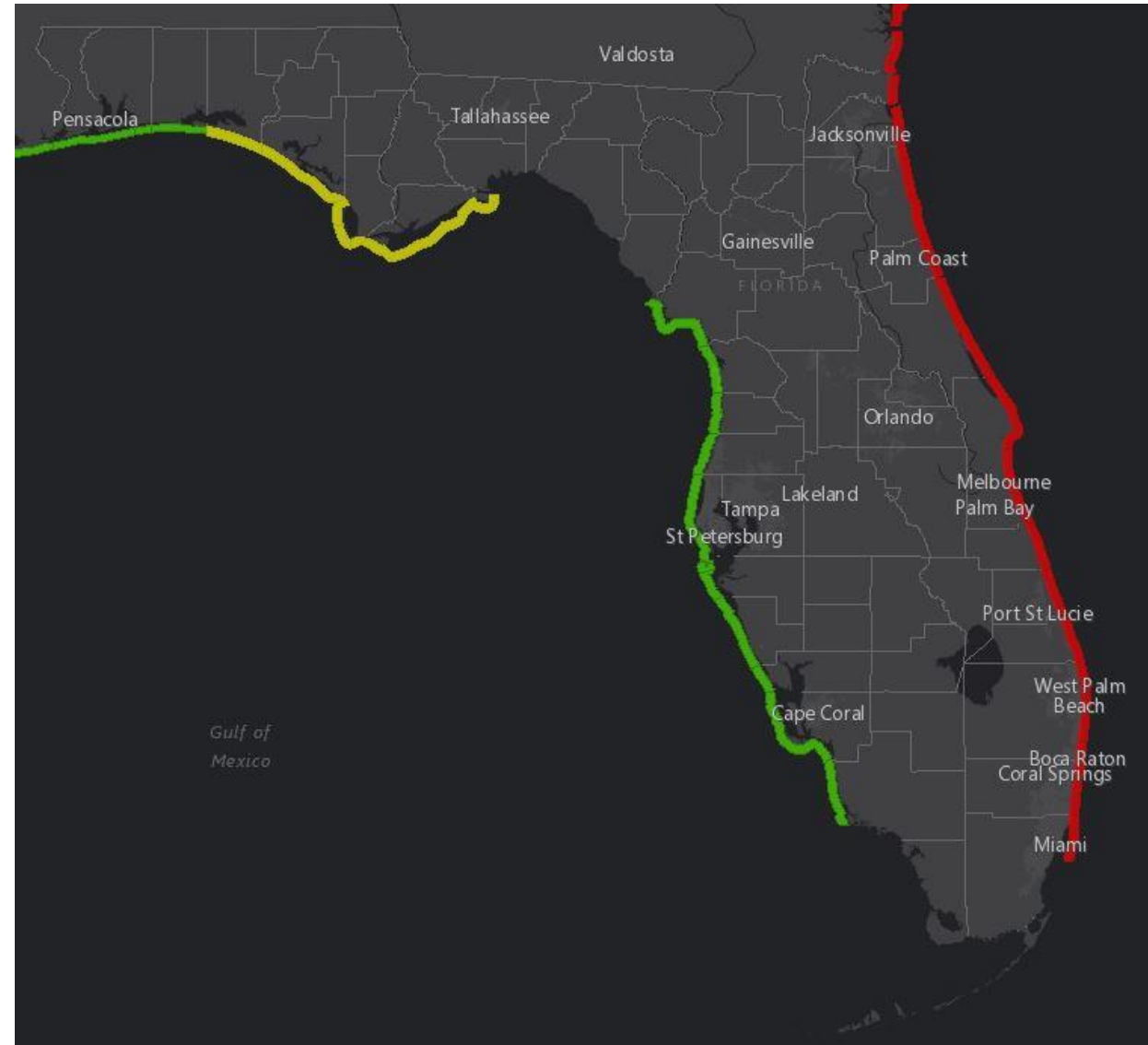
Rip Current Outlook

Today

BEACH FLAG WARNING SYSTEM



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

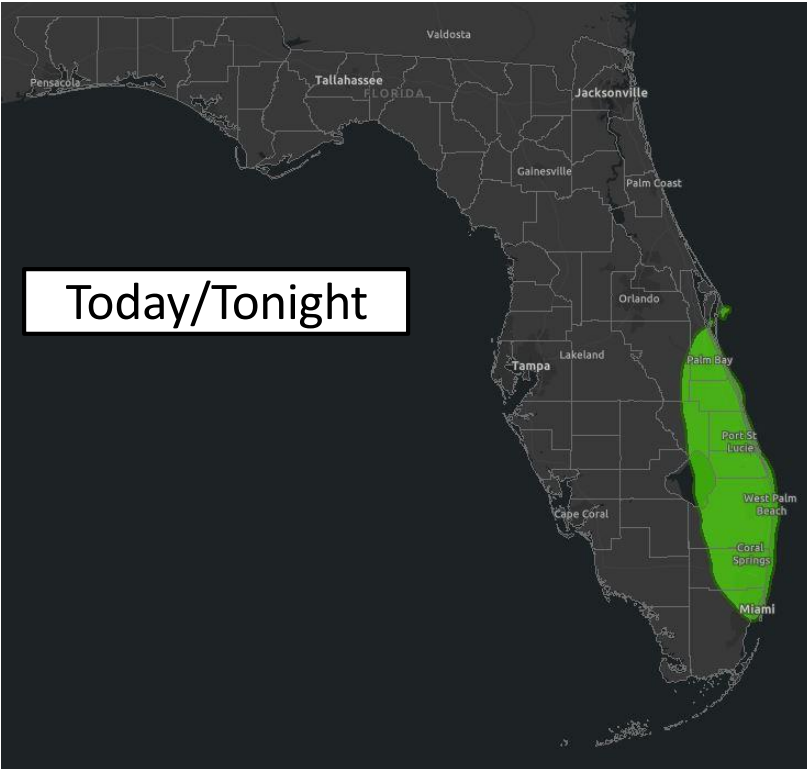




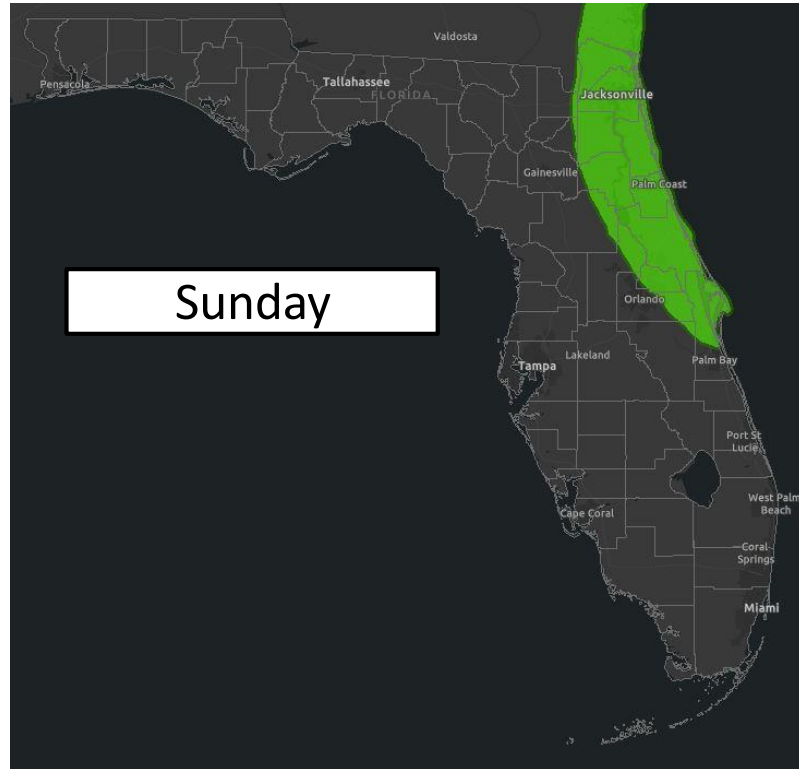
Flash Flood Outlooks

From the Weather Prediction Center

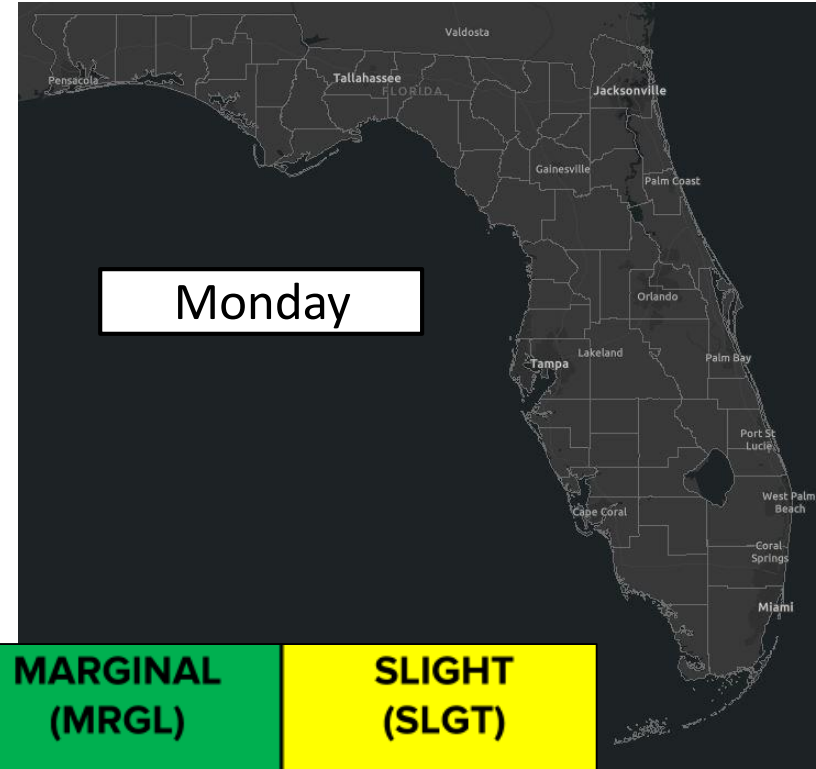
Today/Tonight



Sunday



Monday



**MARGINAL
(MRGL)**

**Isolated flash
floods possible**

Localized and
primarily affecting
places that can
experience rapid
runoff with heavy
rainfall.

**SLIGHT
(SLGT)**

**Scattered flash
floods possible**

Mainly localized. Most
vulnerable are urban
areas, roads, small
streams and washes.
Isolated significant
flash floods possible.

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

HIGH: > 50%

SLGT: 10%-20%

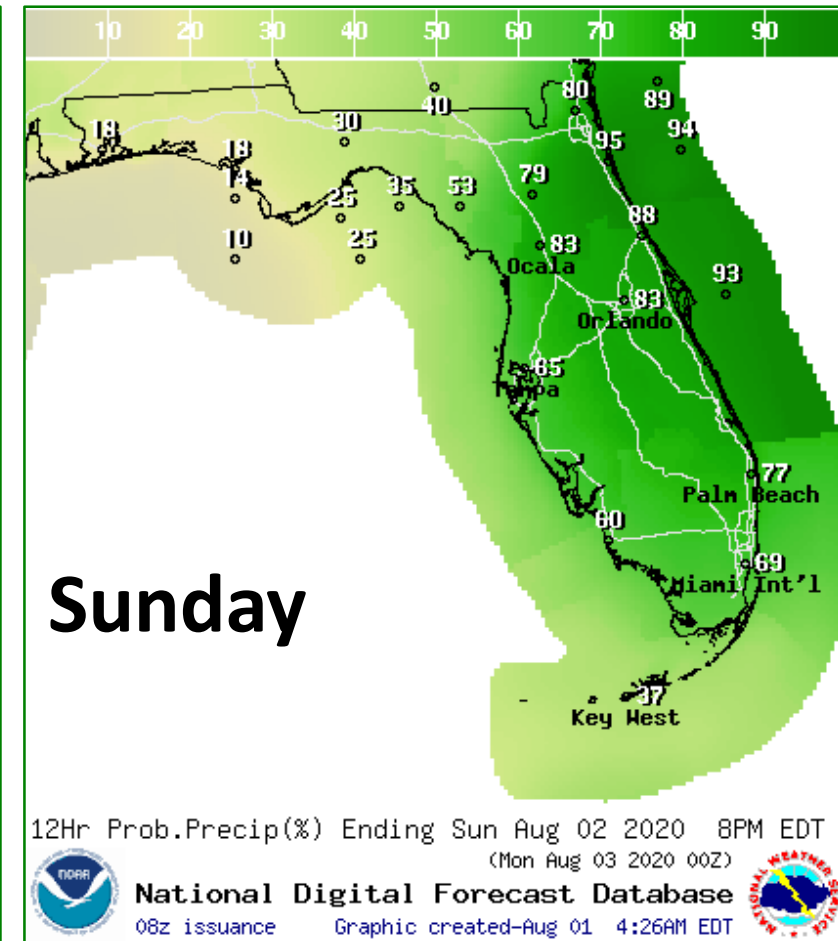
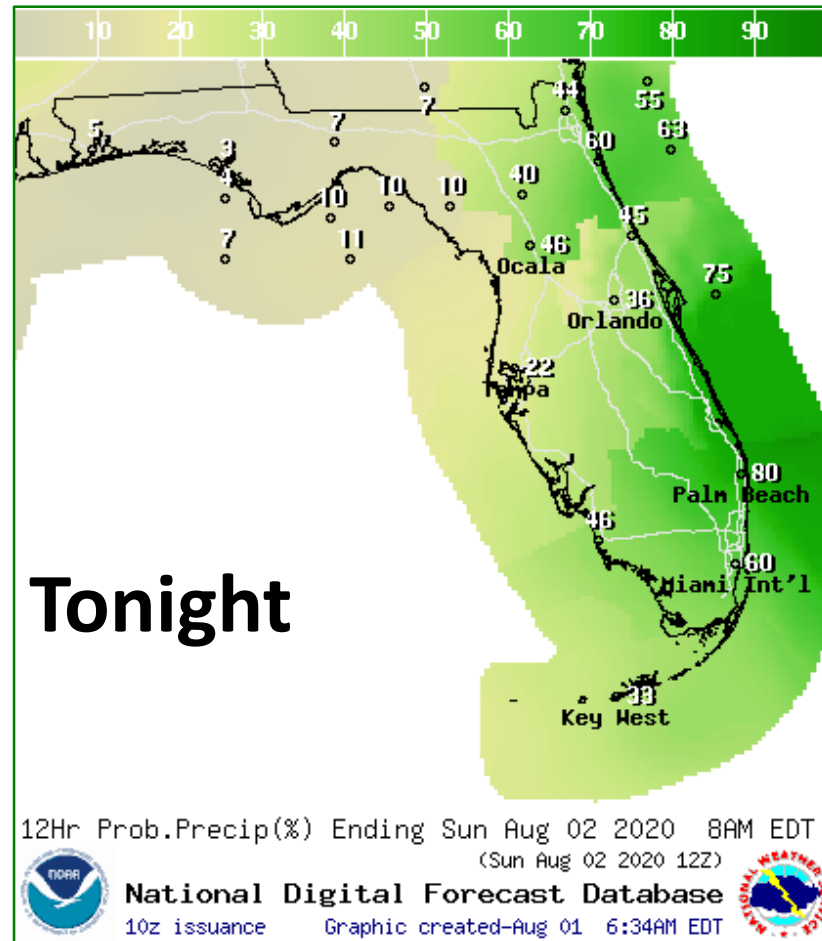
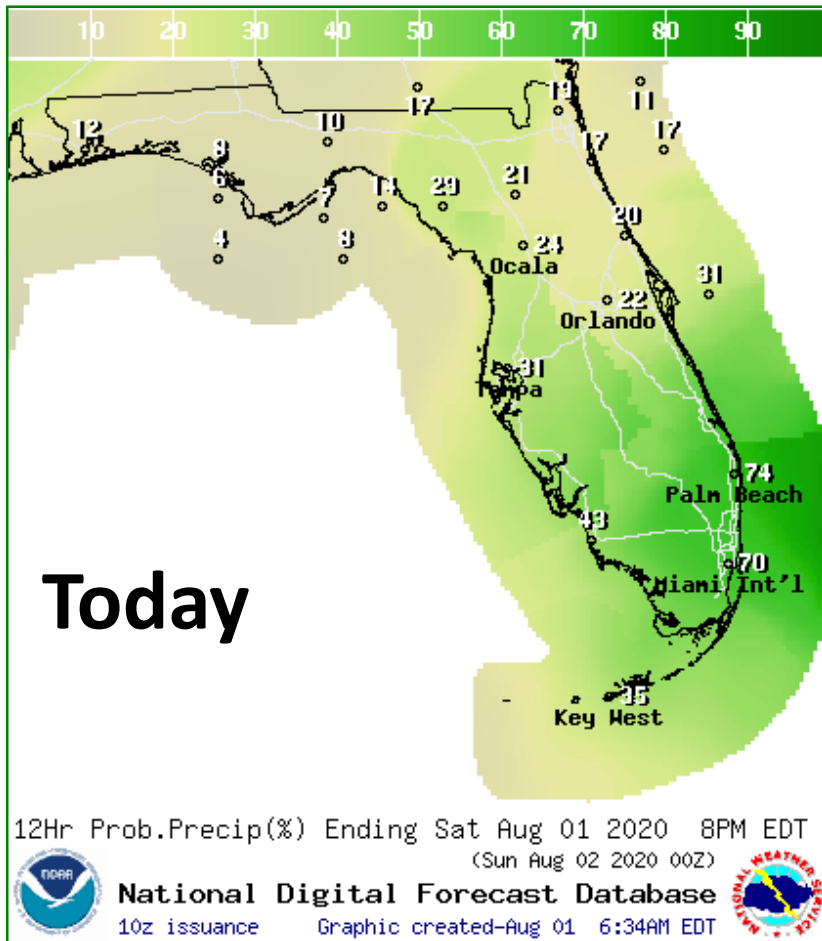
MDT: 20%-50%

MRGL: 5%-10%

An isolated case of
flash flooding is
possible this weekend
in the urban areas of
the East Coast.



Rain Chances Next 3 Days

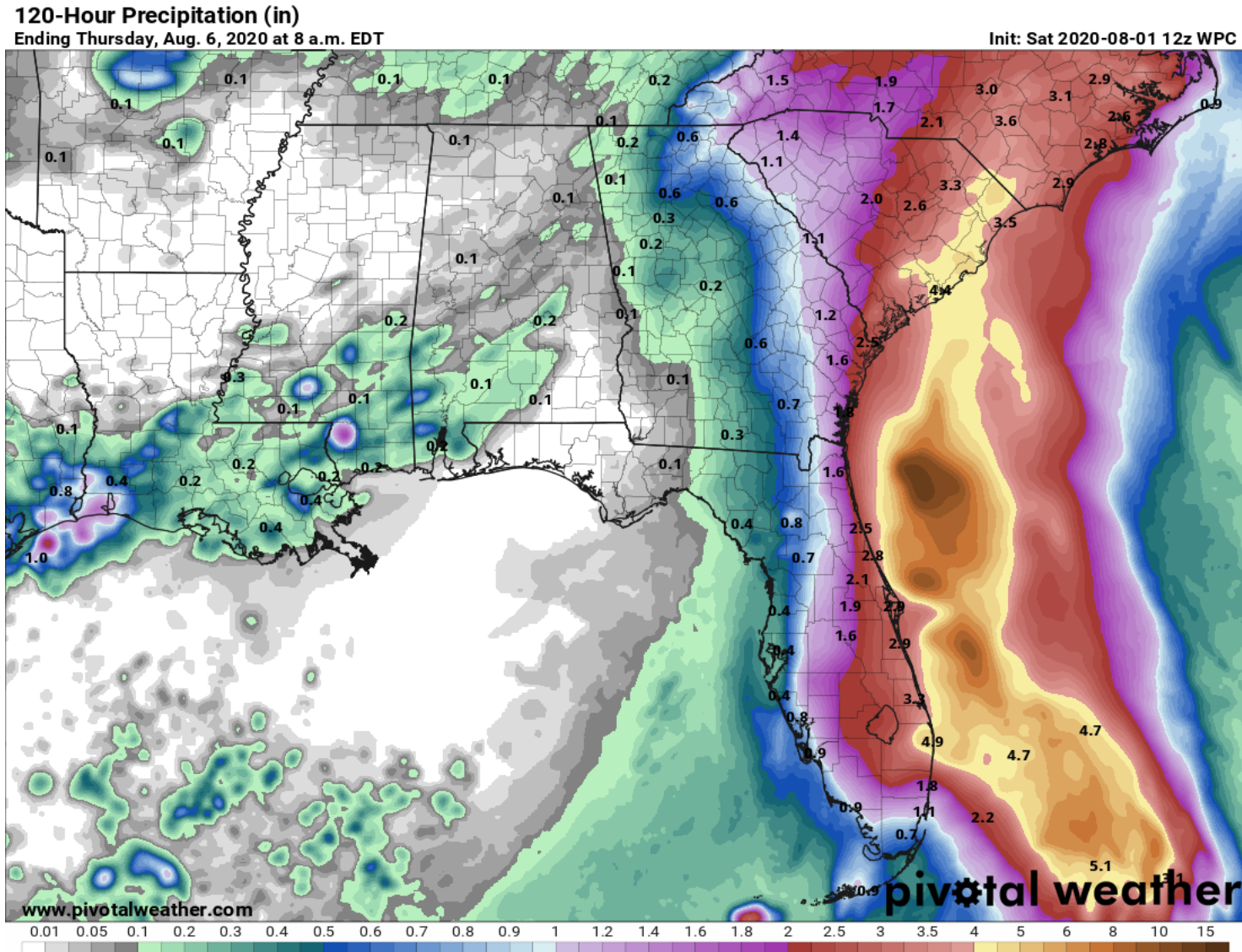


Rain chances in South Florida will begin today, then across the rest of Peninsula tonight and throughout the day on Sunday.



Forecast Rainfall Totals Next 5 Days

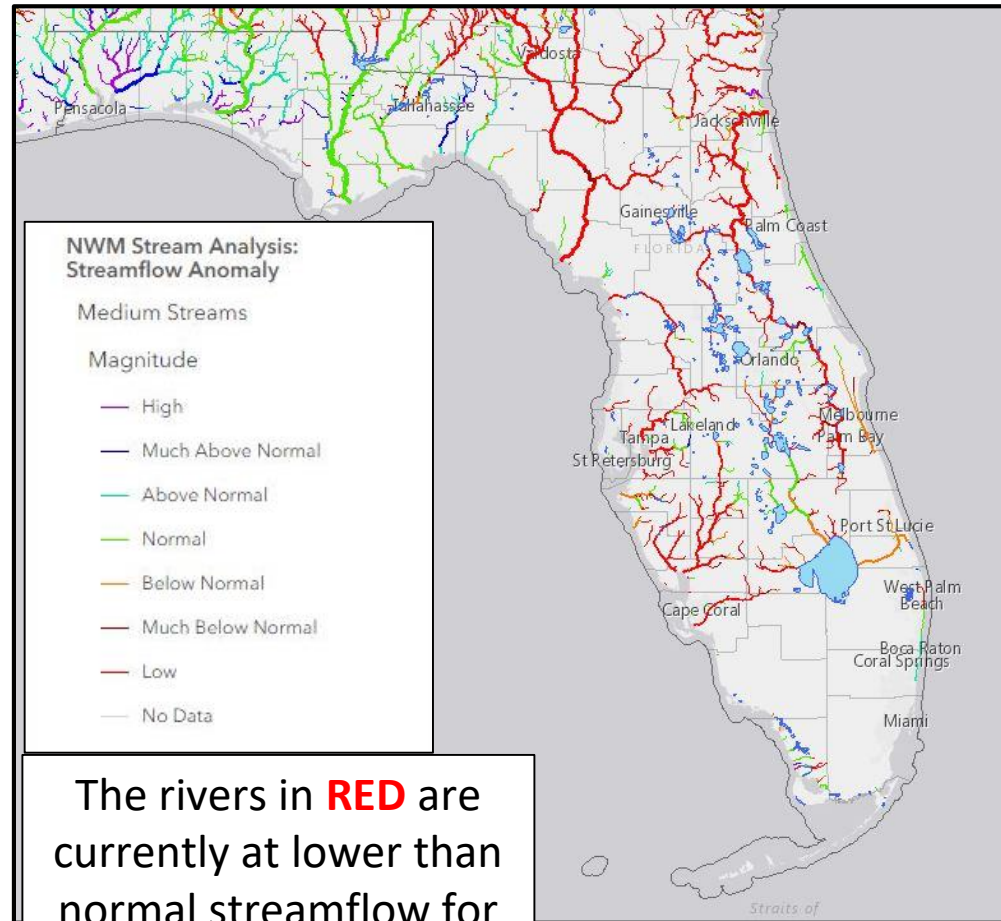
- About 2-4" of rain are possible along the East Coast, 1-2" inland
- Localized totals double these amounts will be possible (6-8").
- Isolated flash flooding possible, especially in the urban areas along the I-95 corridor.
- The storm is much drier on the western side, so a track inland would be needed to increase the flash flood threat.





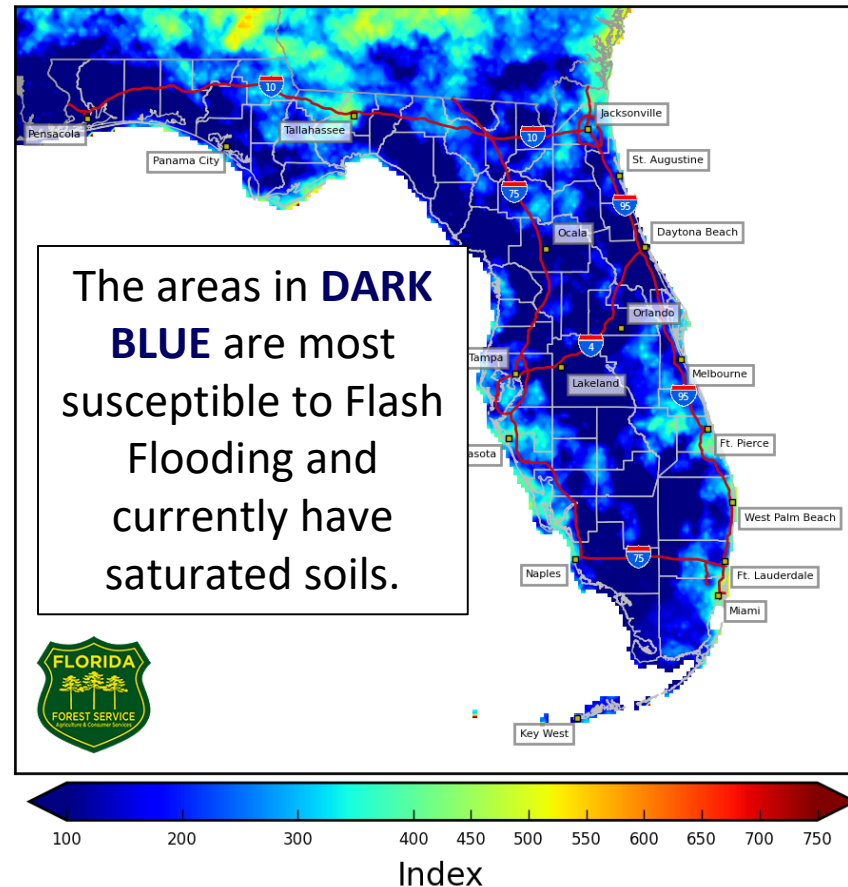
Streamflow Anomaly – Soil Moisture

KB Drought Index – [Full Report from the Florida Forest Service](#)



The rivers in **RED** are currently at lower than normal streamflow for this time of year.

4 km Resolution KBDI
Statewide
July 31, 2020



Streamflows are near to below normal across the entire Peninsula, but soils remain quite saturated. If heavier rainfall occurs, then flash flooding will be a concern.

Most rivers are able to handle 3-5" of rainfall, but flooding concerns may rise if heavier rainfall occurs.



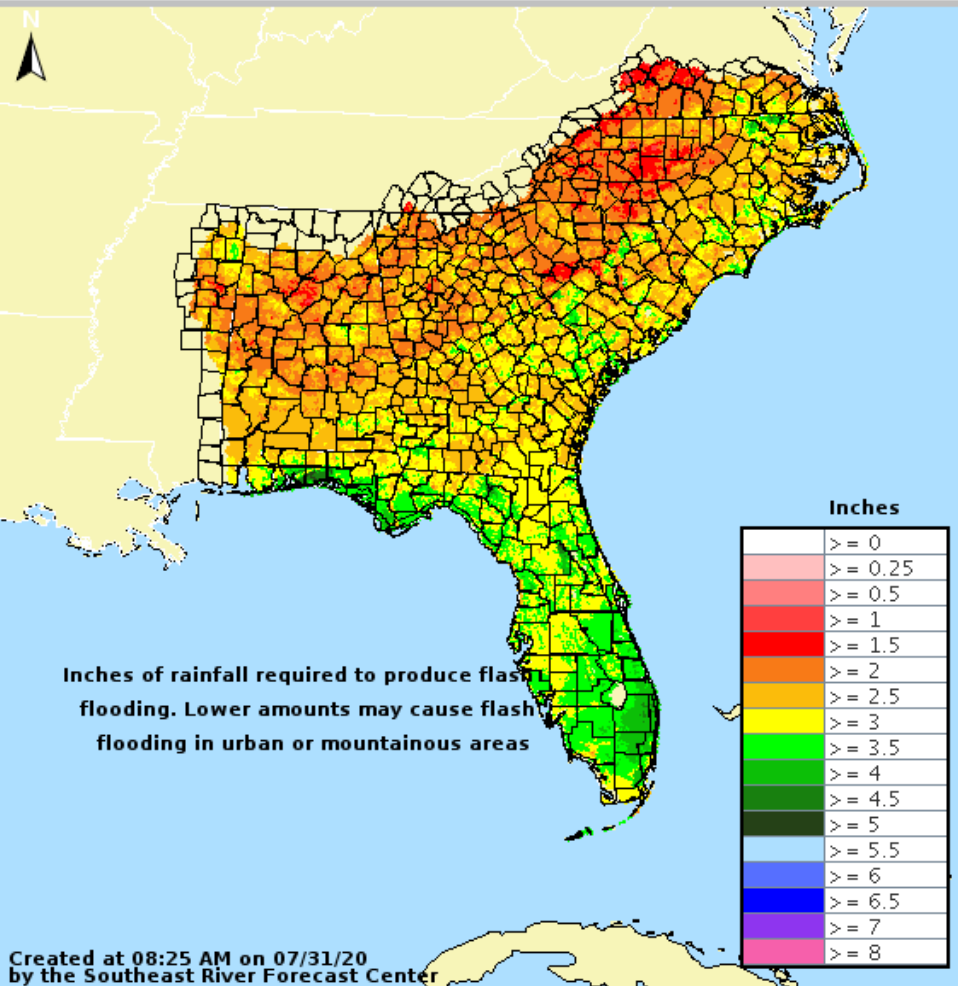
Flash Flood Guidance

How Much Rain is Needed to Create Flash Flooding?



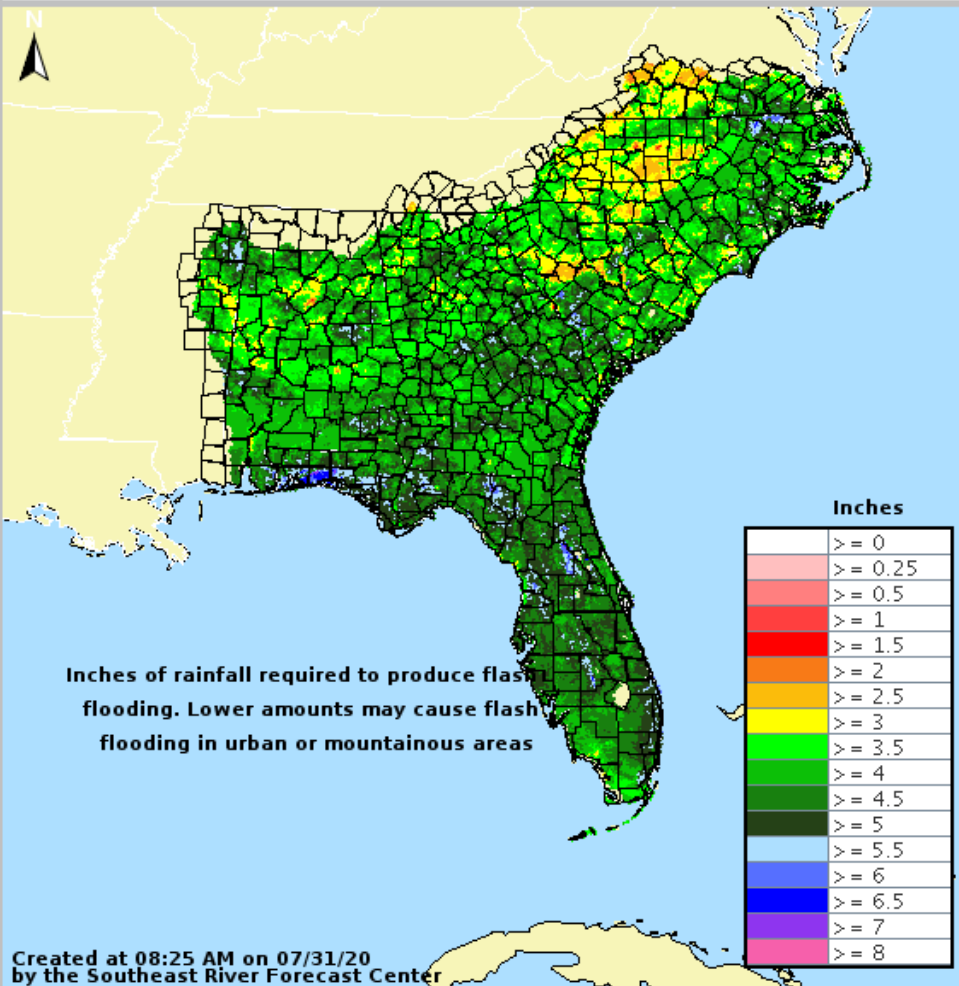
1-hr Flash Flood Guidance

Valid: 07/31/2020 @ 08:25 AM



6-hr Flash Flood Guidance

Valid: 07/31/2020 @ 08:25 AM



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 Hurricane Isaias Advisory 17: 5:00 AM EDT Sat Aug 01, 2020



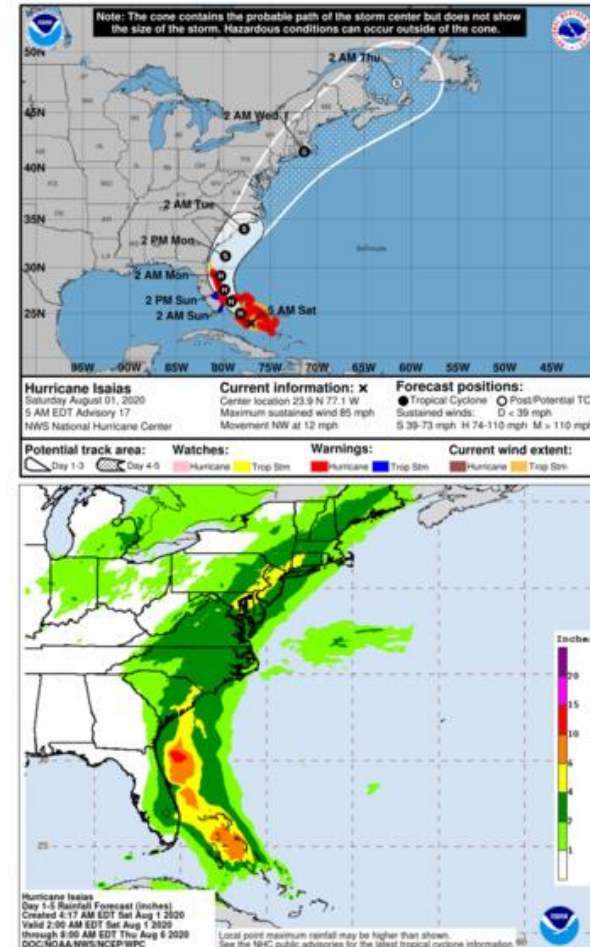
1. Hurricane conditions and dangerous storm surge are expected in portions of the Bahamas through Saturday, and Hurricane Warnings are in effect.

2. Hurricane conditions are expected along portions of the Florida east coast late Saturday and Saturday night, and a Hurricane Warning is in effect. Preparations to protect life and property should be rushed to completion.

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 in these areas should follow advice given by local emergency officials.

4. Isaias will produce heavy rains and potentially life-threatening flash and urban flooding, especially in low-lying and poorly drained areas, across South to east-Central Florida, and across the Carolinas to the mid Atlantic. Minor river flooding is possible across portions of the Carolinas and into Virginia early next week.

5. There is a risk of impacts from winds, heavy rainfall, and storm surge spreading along much of the the U.S. east coast through early next week, and interests there should monitor the progress of Isaias and updates to the forecast.

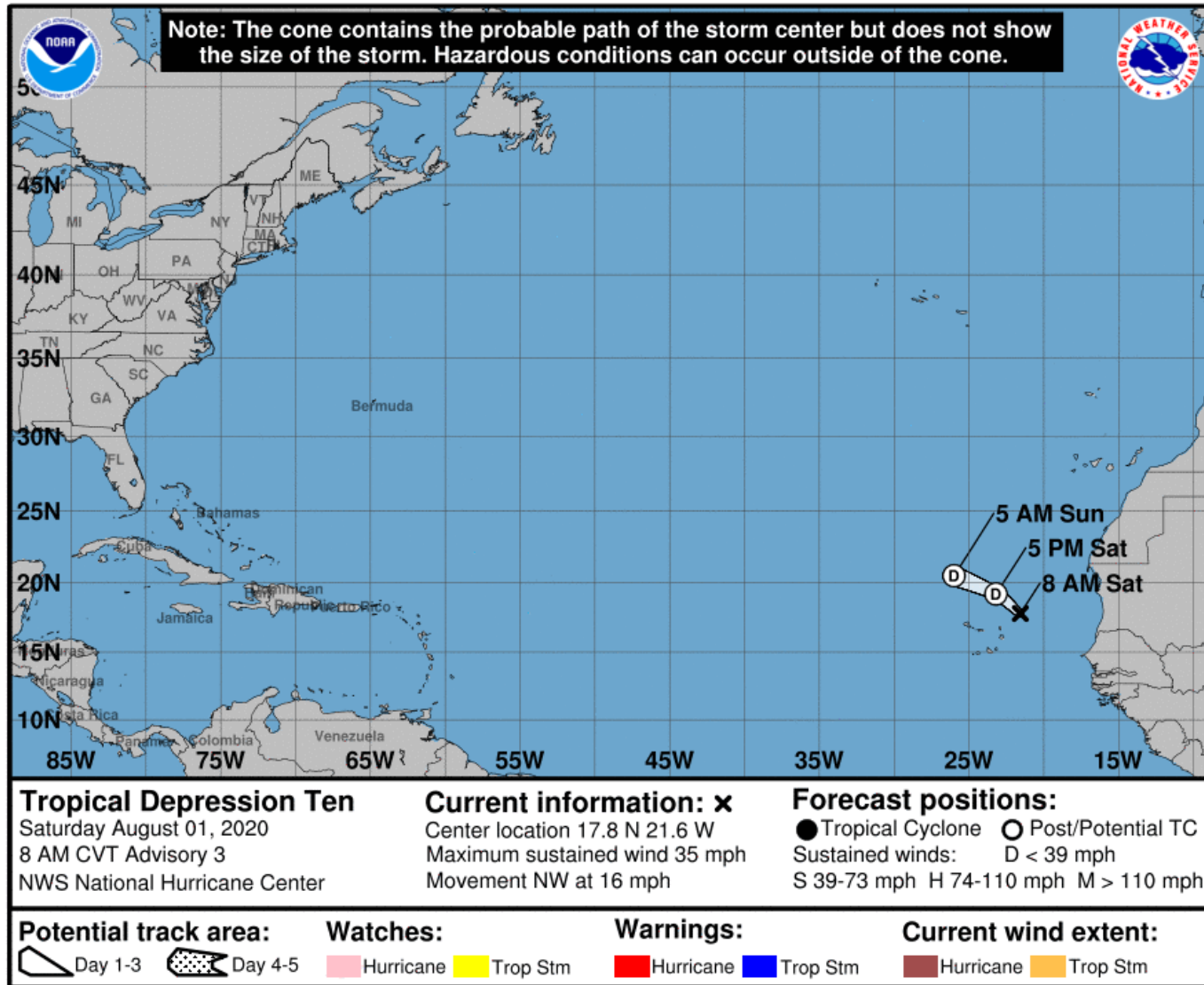


For more information go to hurricanes.gov



Official Forecast Track

From the National Hurricane Center – Tropical Depression #10



- The center of Tropical Depression #10 is located about 200 miles northeast of the Cabo Verde Islands, moving northwest at 16 mph.
- Maximum sustained winds are around 35 mph.
- The system is moving over colder water and is expected to dissipate over the next 24 hours.



Tropical Weather Outlook

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



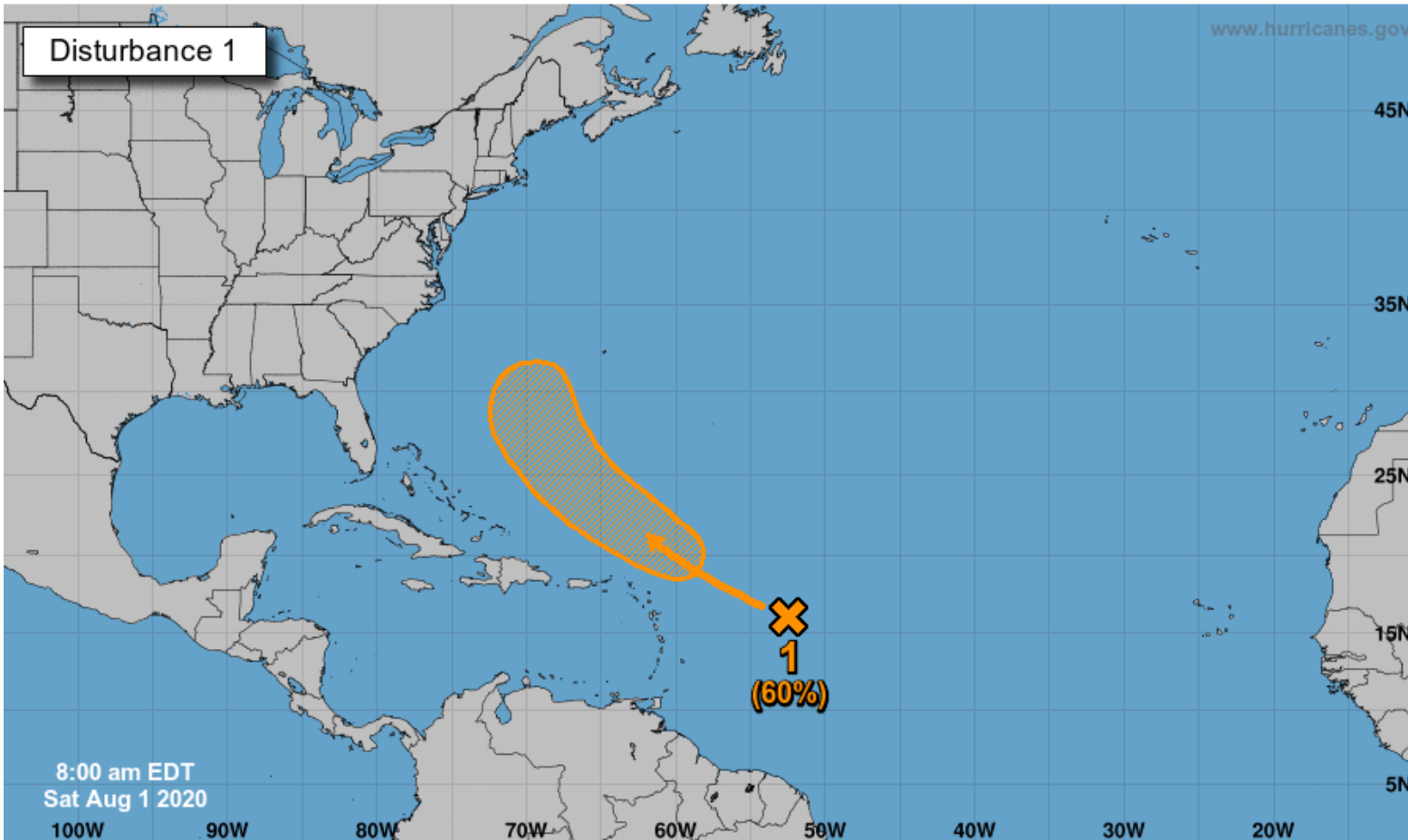
Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



www.hurricanes.gov

Disturbance 1



A westward-moving tropical wave located about 600 miles east of the northern Leeward Islands continues to produce disorganized showers and thunderstorms.

Environmental conditions are forecast to become more conducive for development in a day or two, and a tropical depression could form early next week.

This system is forecast to turn northwestward and then northward over the western Atlantic, passing north of the Leeward Islands through the middle of next week.

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

***Formation chance through 48 hrs...low...10%**

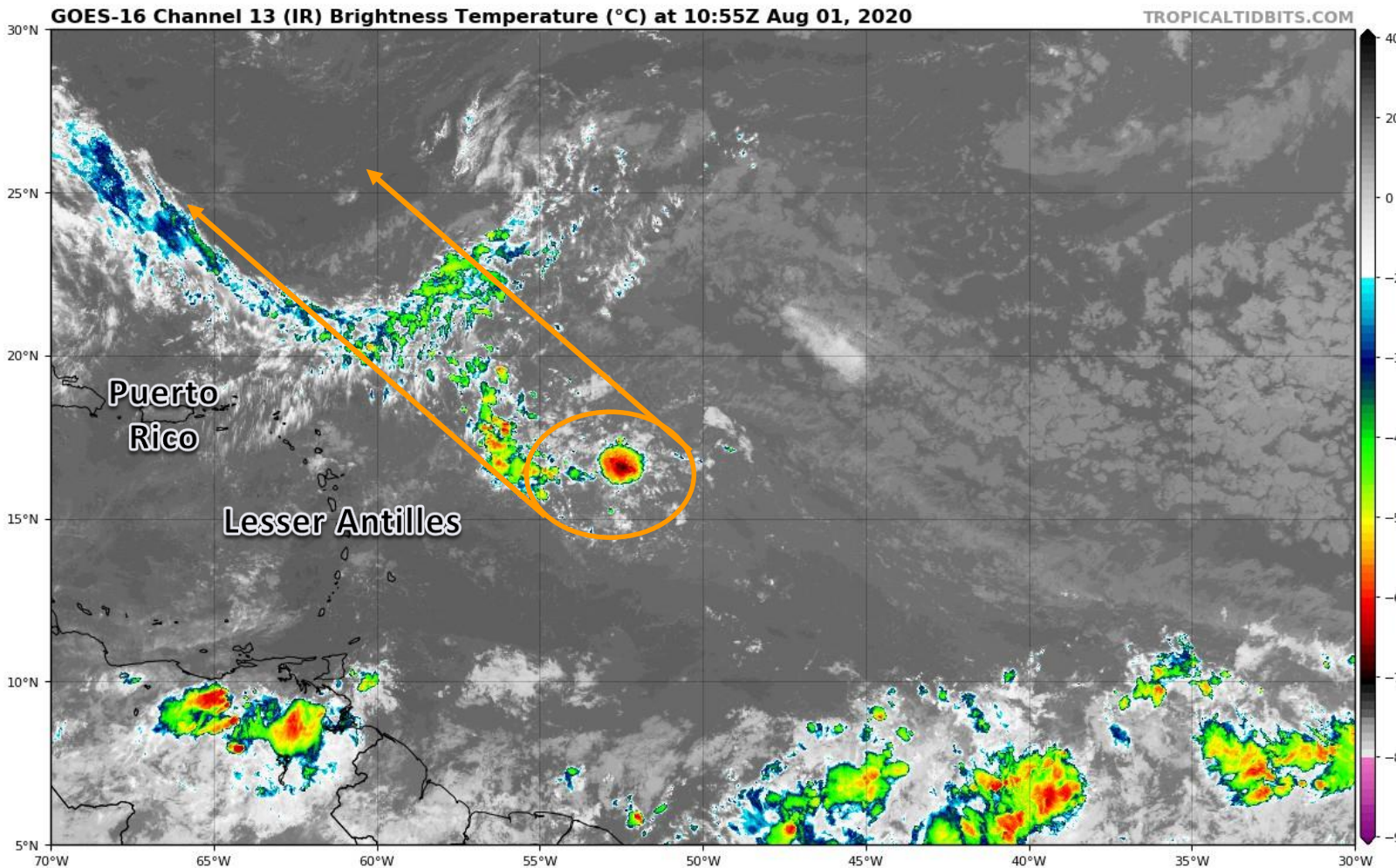
***Formation chance through 5 days...medium...60%**

Current Disturbances and Five-Day Cyclone Formation Chance:
Tropical or Sub-Tropical Cyclone: ○ Depression ⚡ Storm 🌀 Hurricane
⊗ Post-Tropical Cyclone or Remnants

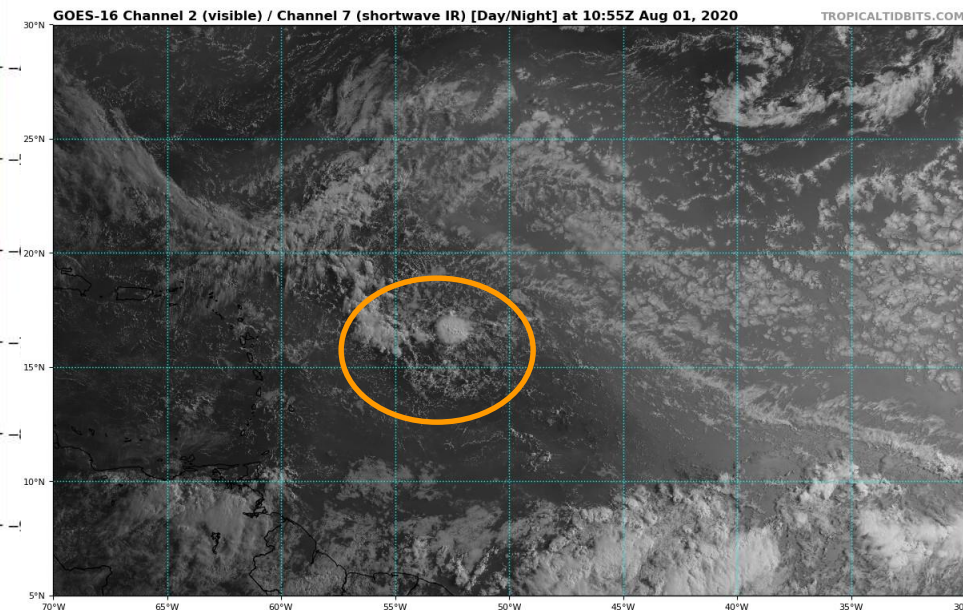


Satellite Imagery

Central Atlantic – Tropical Wave (60%)



A small 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 next week.

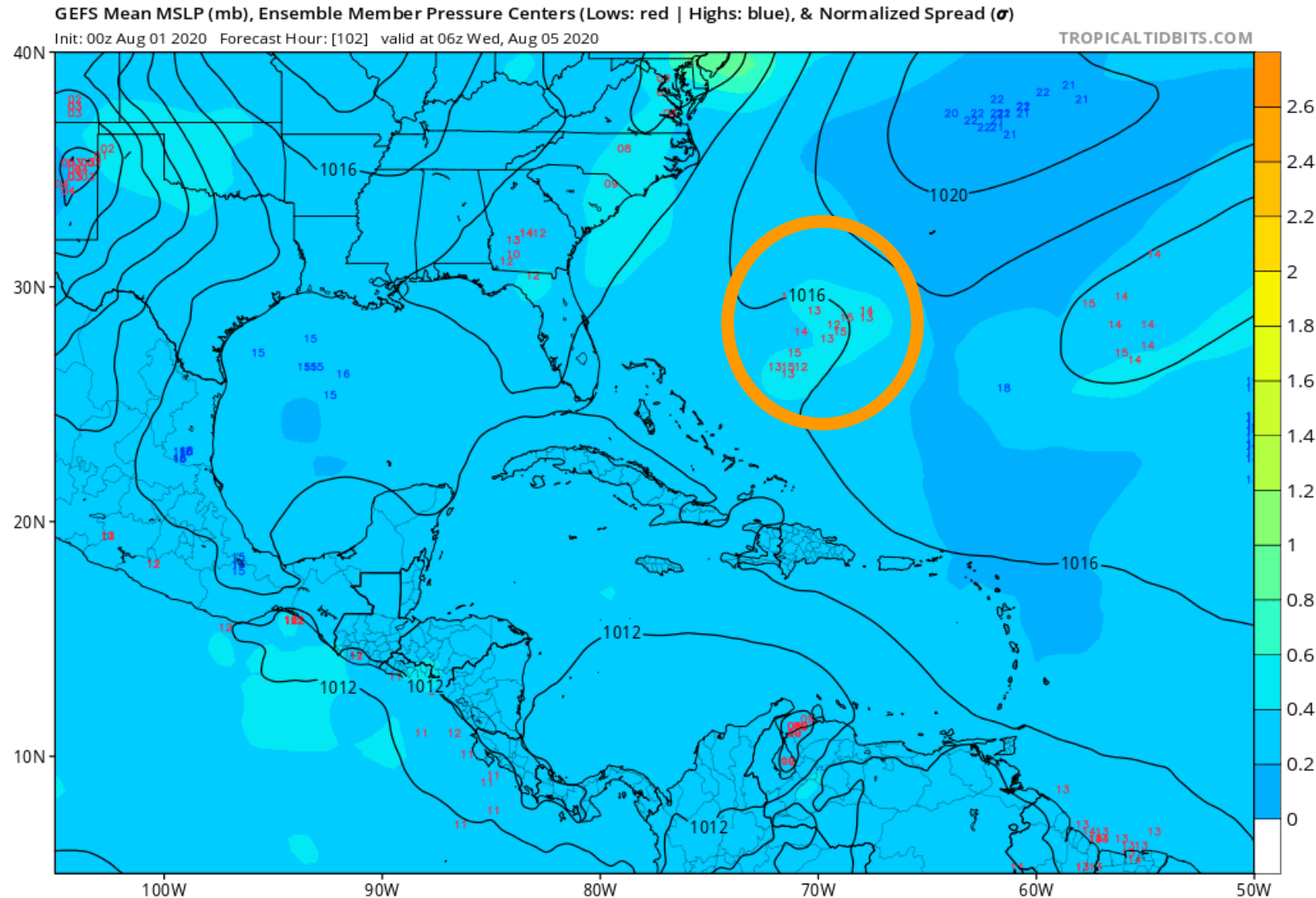




Model Forecast Tracks

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 next week.





Overall Summary

Hurricane Isaias

- Isaias is disorganized this morning, with the center located about 250 miles southeast of Miami, FL, moving northwest at 12 mph.
- The system has slowed down overnight, and a slower track up the East Coast of Florida is now forecast.
- Maximum sustained winds are near 85 mph (Category 1 Hurricane). Gradual weakening is forecast as Isaias moves up the East Coast of Florida.
- Hurricane winds extend out up to 35 miles from the center, and tropical storm force winds up to 175 miles.
- A north to northeast motion is expected early next week with the system paralleling the East Coast of the United States as it continues to weaken.

Tropical Depression #10

- The Tropical Depression has moved over colder water north of the Cabo Verde Islands in the eastern Atlantic and is forecast to dissipate in the next 24 hours.
- This system poses no threat to Florida.

Central Atlantic Tropical Wave

- A tropical wave northeast of the Lesser Antilles is producing some shower activity as it moves northwest.
- Some slow development of this system is possible early next week 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 into next week and should be monitored.
- This system has a 10% (low) chance of formation over the next 48 hours, and a 60% (medium) chance in days 3-5.



Overall Summary

Florida Outlook:

- **Isaias poses a direct threat to Florida this weekend. Outer rain bands are already impacting Southeast Florida.**
- **Storm Surge Watch:** St. Johns, Flagler, Brevard, Indian River, St. Lucie, Martin, Palm Beach
- **Hurricane Warning:** coastal Volusia, Brevard, Indian River, St. Lucie, Martin, coastal/metro Palm Beach
- **Hurricane Watch:** coastal Broward, inland Palm Beach
- **Tropical Storm Warning:** inland Volusia, Seminole, Orange, Osceola, Okeechobee, inland Palm Beach, Broward, coastal/metro Miami-Dade
- **Tropical Storm Watch:** coastal St. Johns, coastal Flagler, inland/far south Miami-Dade.
- Wind gusts from 40-65 mph are generally forecast in the tropical storm warning area, with gusts to 70 mph possible.
- In the Hurricane Warning area, gusts 75-90 mph are generally forecast.
- Heavy rainfall of 3-4" with localized totals possibly double that will be possible across the East Coast. If Isaias makes landfall in Florida, rainfall totals will be higher as most of the heavy rain is to the east of the center.
- 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 if the center moves over the state.
- 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 beach erosion will be likely at all Atlantic beaches this weekend.

The next briefing packet will be issued later this 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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