



# **TROPICAL UPDATE**

**5 PM EDT**

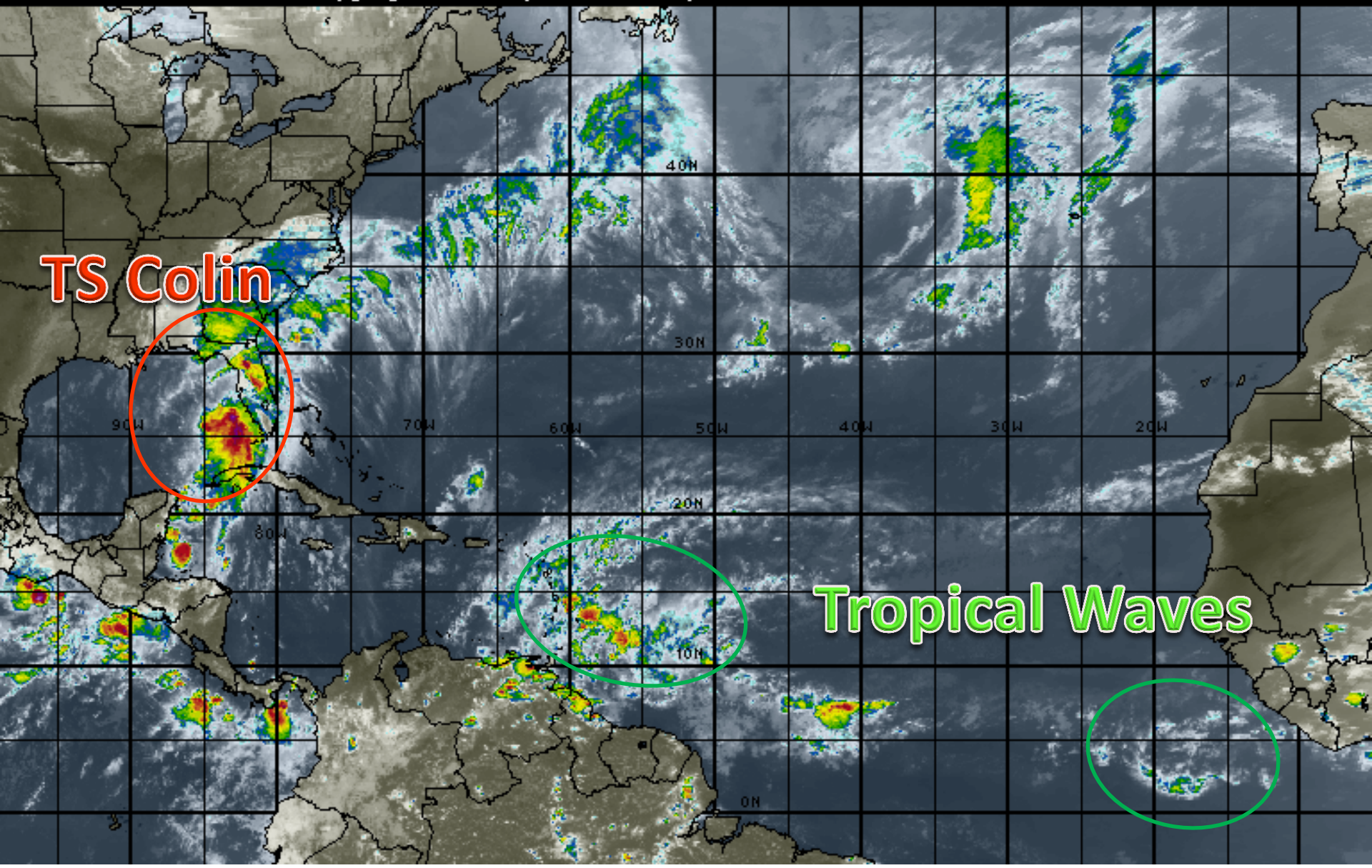
**Monday, June 6, 2016**

**Tropical Storm Colin**

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

# Atlantic Basin Satellite Image

18:00 06-JUN-2016 GMT ©Copyright WSI Corporation <http://www.wsi.com>





# Tropical Storm Colin

4 PM CDT Mon Jun 06 2016

Position 28.8 N 85.5 W

Maximum Winds 50 mph

Gusts 65 mph

Movement NNE at 23 mph

Minimum Pressure 1002 mb (29.58 inches)

Blue Marble base map imagery courtesy NASA

Satellite 9:27 PM UTC

4:27 PM CDT





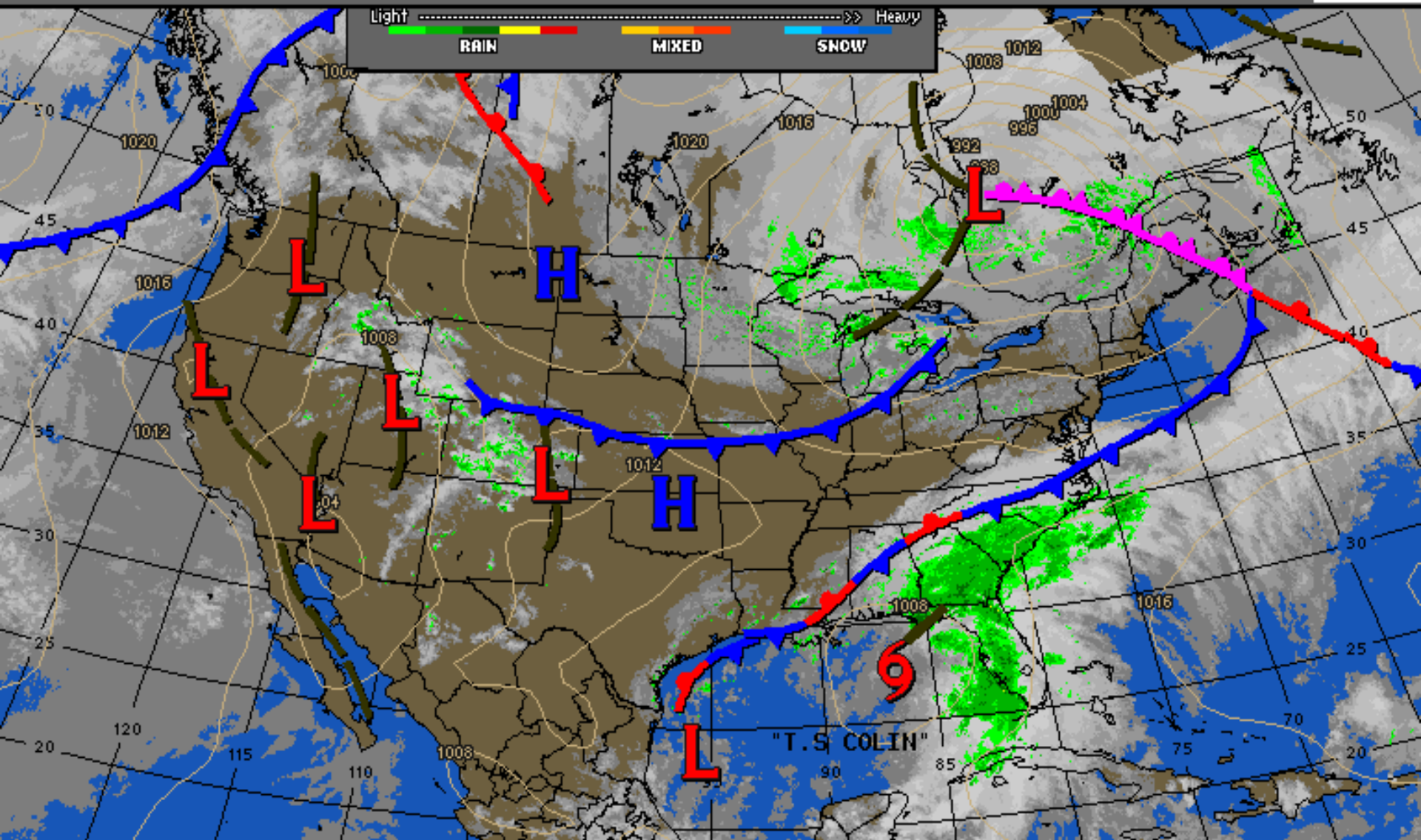
# Surface Weather Map

19:30 06-JUN-2016 GMT ©Copyright WSI Corporation <http://www.wsi.com>

U.S. SURFACE ANALYSIS w/ Radar and IR Sat

VALID AT 1800 UTC 06 Jun 16

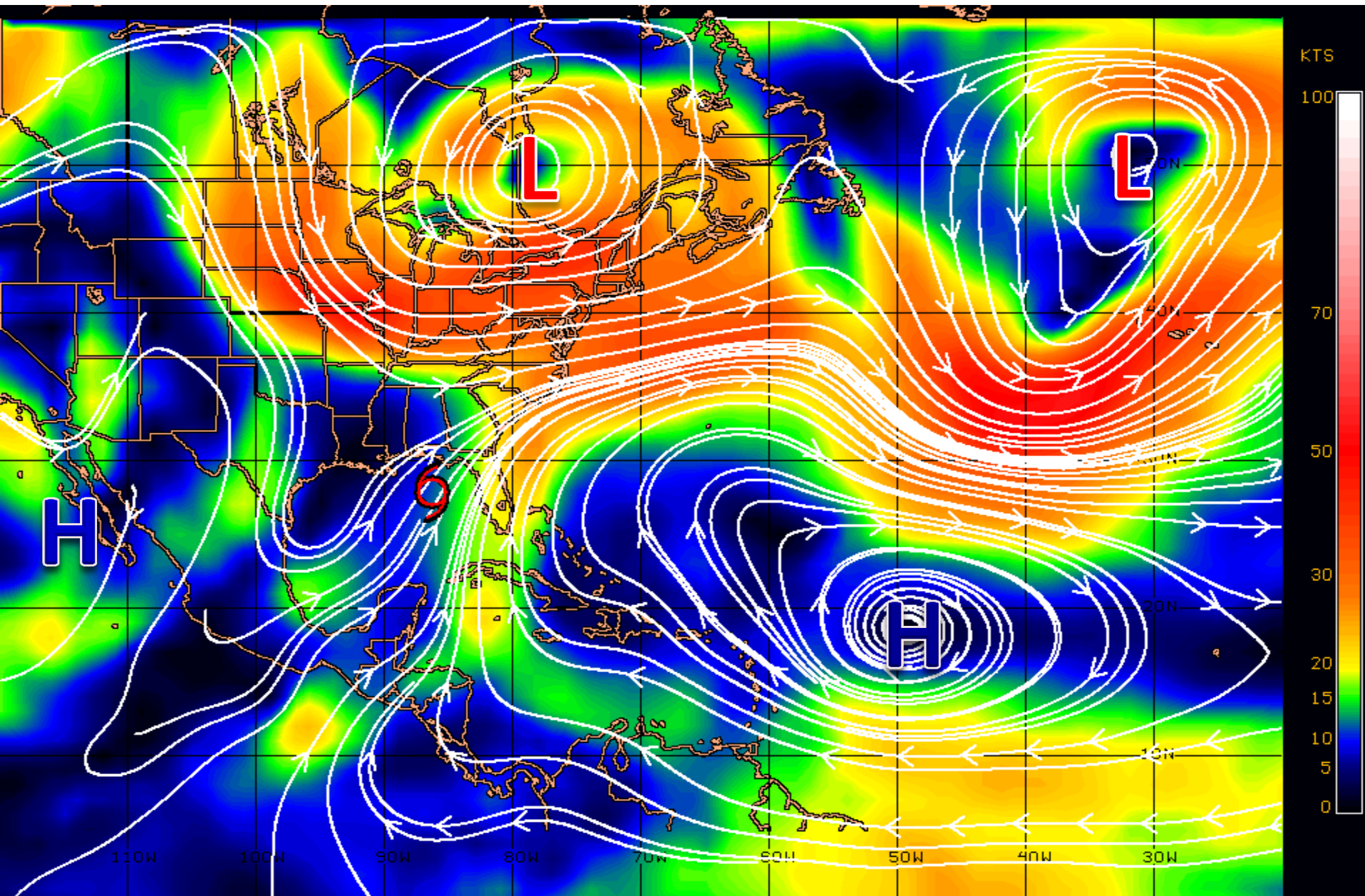
WSI®



UPDATED 19:41 UTC 06 Jun 16

UPDATED EVERY 3 HOURS

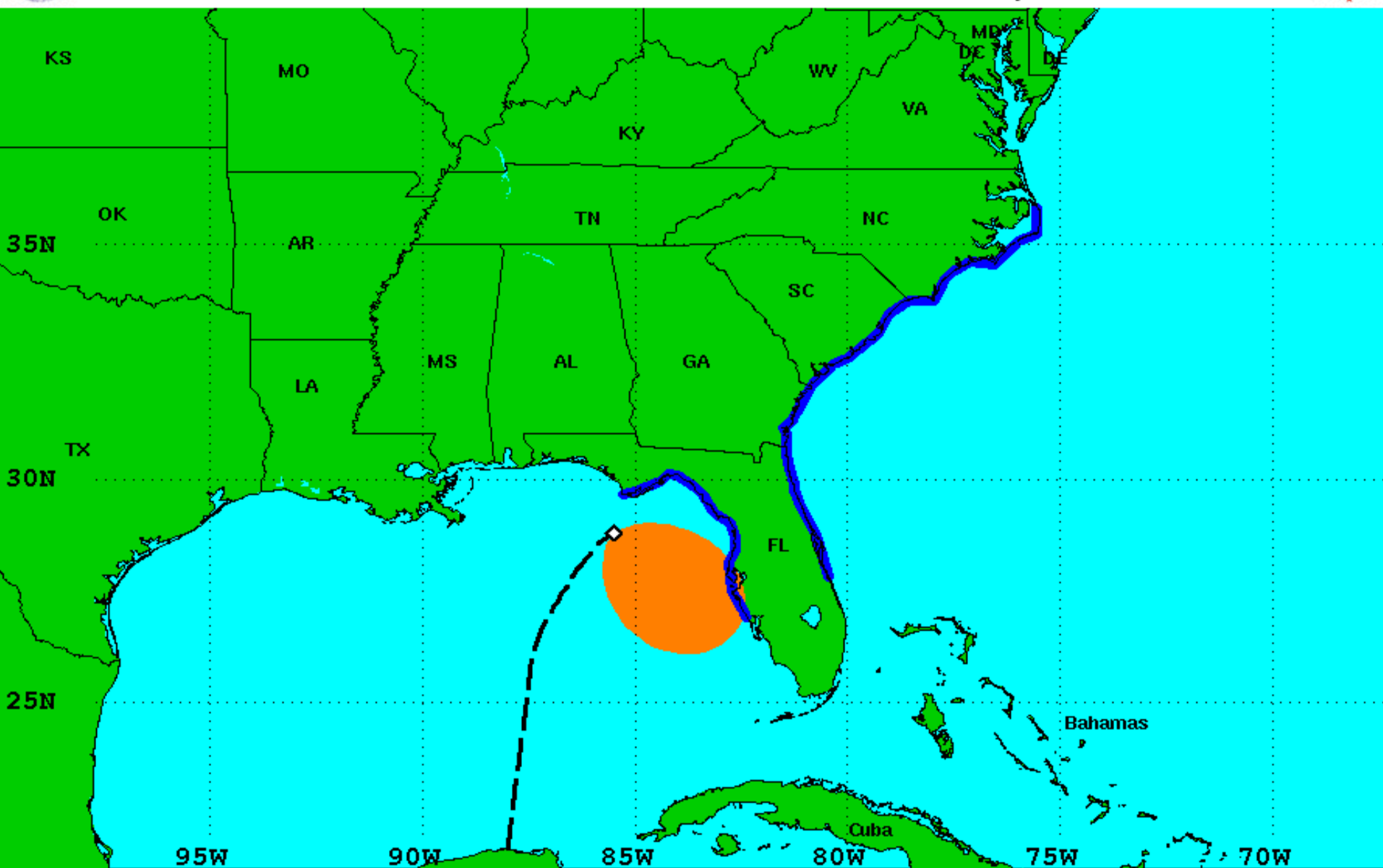
# Steering Currents





# Surface Wind Field of Tropical Storm Colin

Sustained Winds as of 400 PM CDT Mon Jun 6, 2016    Advisory Number 6



## Watches:

- Hurricane Watch
- Tropical Storm Watch

## Warnings:

- Hurricane Warning
- Tropical Storm Warning

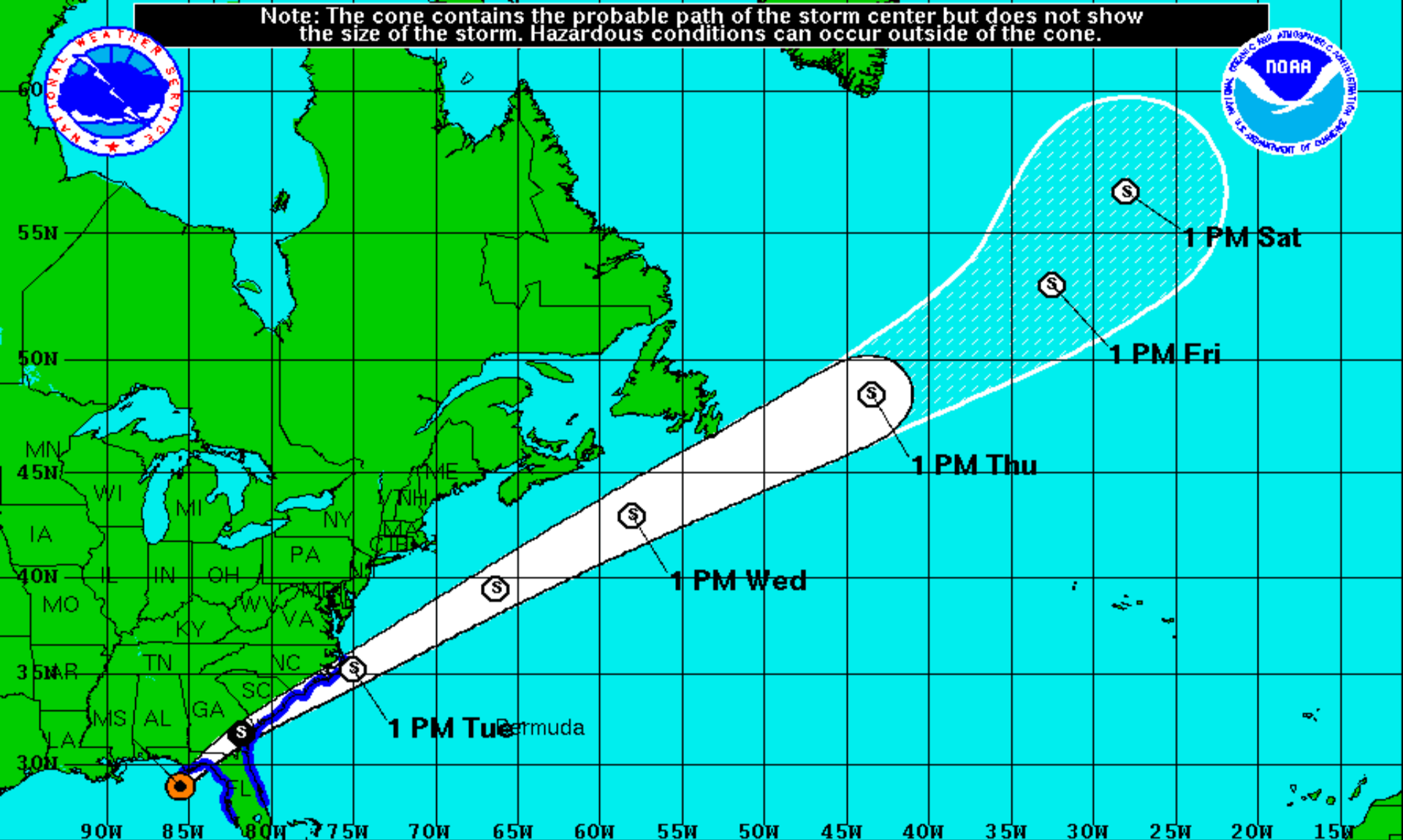
## Sustained Winds:

- Hurricane Force
- Tropical Storm Force


## Position:



- Center as of 400 PM CDT
- Past Track

Note: The cone contains the probable path of the storm center but does not show the size of the storm. Hazardous conditions can occur outside of the cone.



**Tropical Storm Colin**  
 Monday June 6, 2016  
 4 PM CDT Advisory 6  
 NWS National Hurricane Center

**Current Information:**   
 Center Location 28.8 N 85.5 W  
 Max Sustained Wind 50 mph  
 Movement NNE at 23 mph

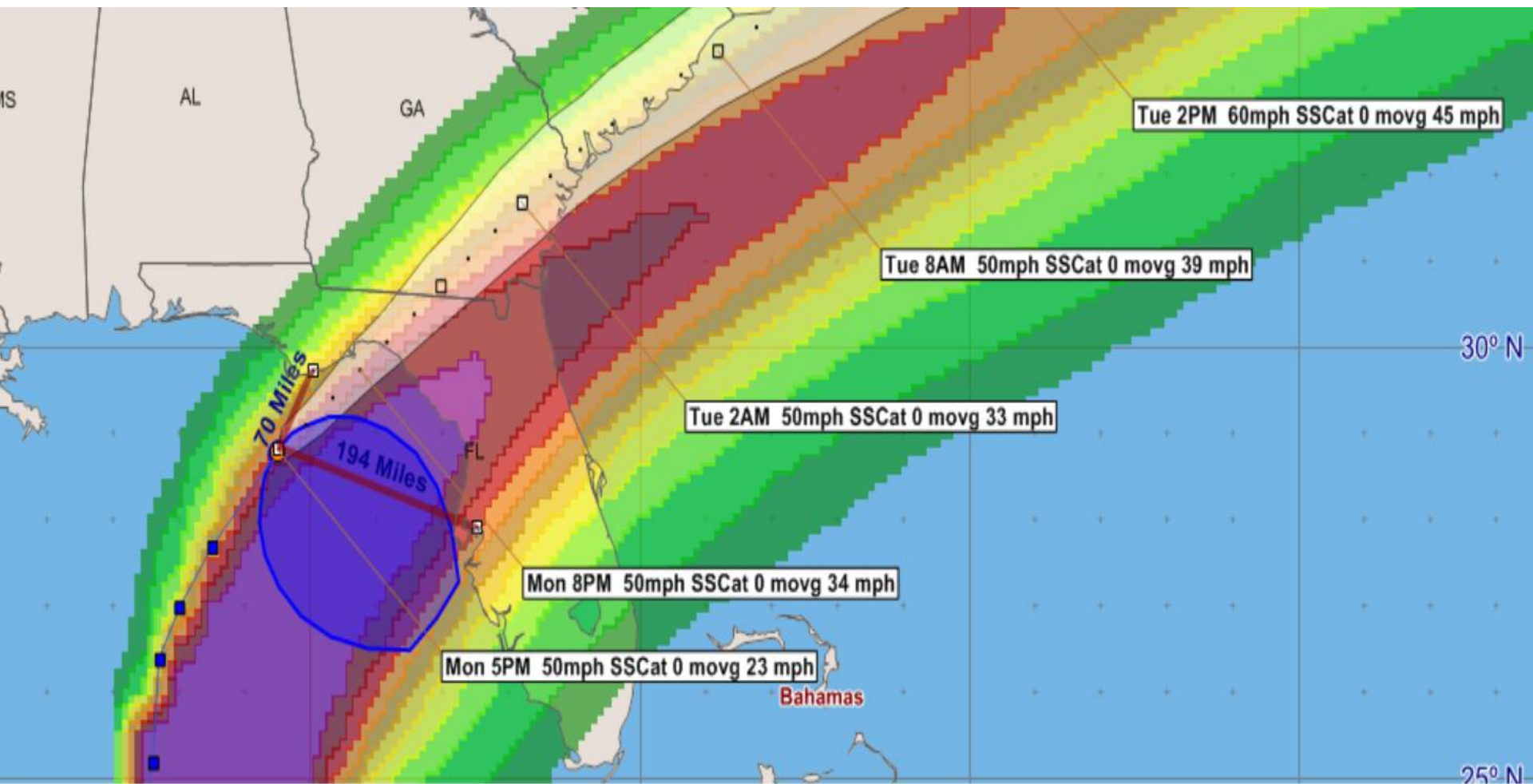
**Forecast Positions:**  
 Tropical Cyclone  Post-Tropical  
 Sustained Winds: D < 39 mph  
 S 39-73 mph H 74-110 mph M > 110mph

**Potential Track Area:**  
 Day 1-3  Day 4-5

**Watches:**  
 Hurricane  Trop.Storm

**Warnings:**  
 Hurricane  Trop.Storm





# **Tropical Storm Colin - Monday, June 6, 2016 5 PM EDT Advisory #6**

Center Location: 28.8 N 85.5 W Maximum Sustained Winds: 50 mph Movement: 23 mph NNE

forecast positions Potential Track Area: day 1-3 day 4-5 Surface Wind Field: at current location

Sustained Wind Speeds: tropical storm  $\geq 34\text{kt}/39\text{mph}$  strong tropical storm  $\geq 50\text{kt}/58\text{mph}$  hurricane  $\geq 64\text{kt}/74\text{mph}$

Probability of tropical storm force surface winds (1-minute average  $\geq 34\text{kt}/39\text{mph}$ ) from all tropical cyclones for the 120 hours (5 days) from 8AM EDT Mon 6/6/2016 to 8AM EDT Sat 6/11/2016

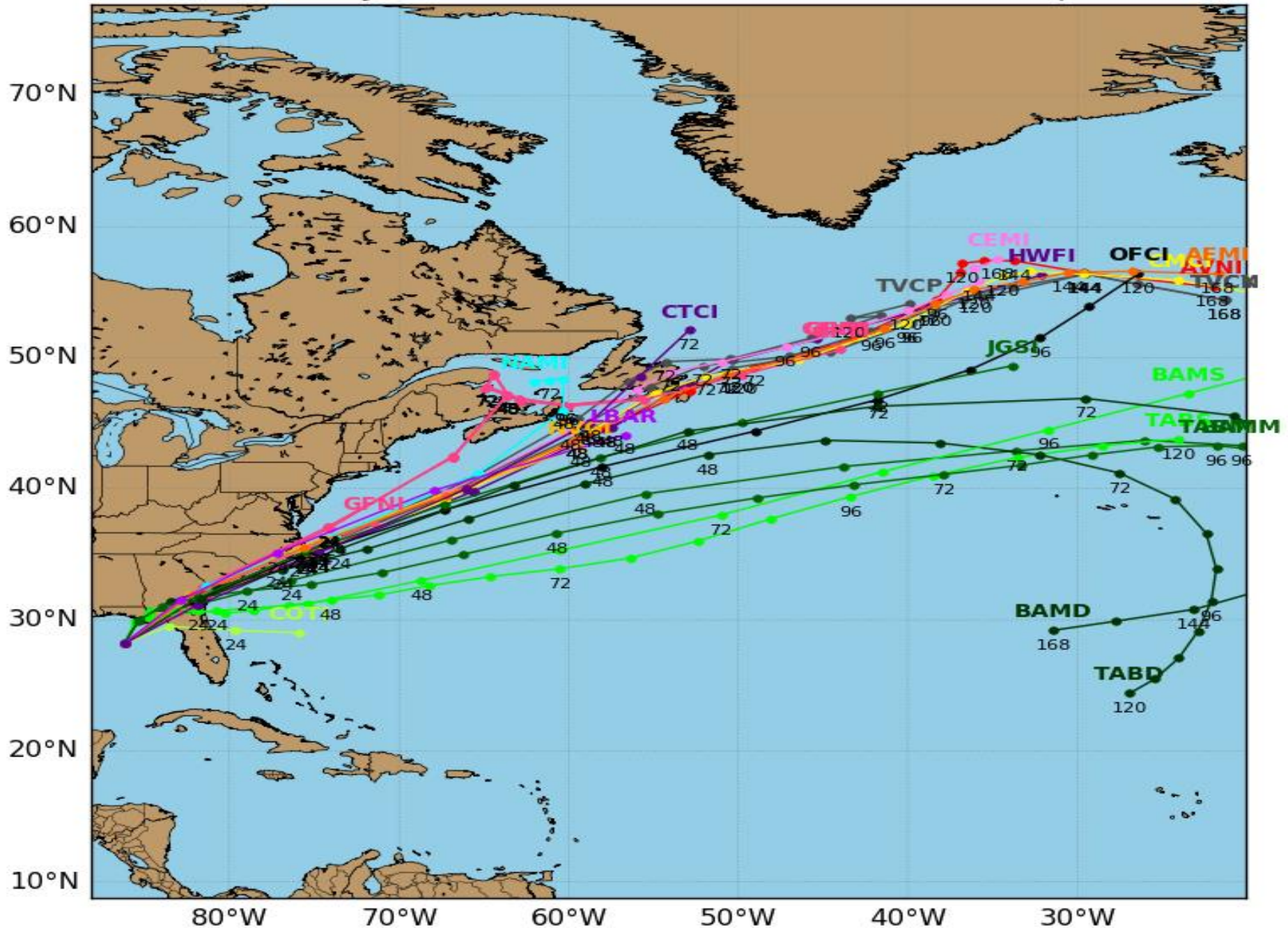




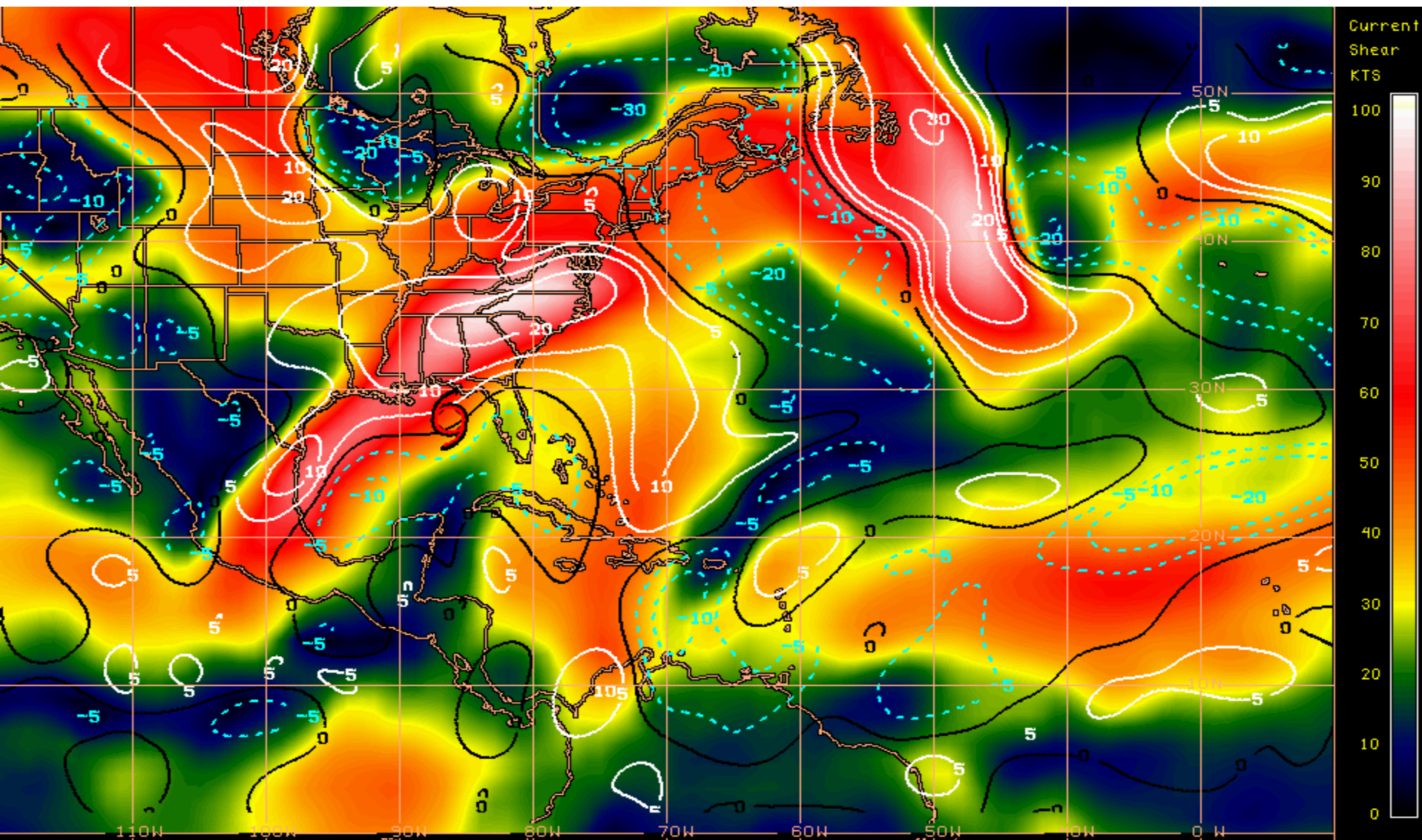
# Tropical Storm COLIN Model Track Guidance

Initialized at 18z Jun 06 2016

Levi Cowan - [tropicaltidbits.com](http://tropicaltidbits.com)



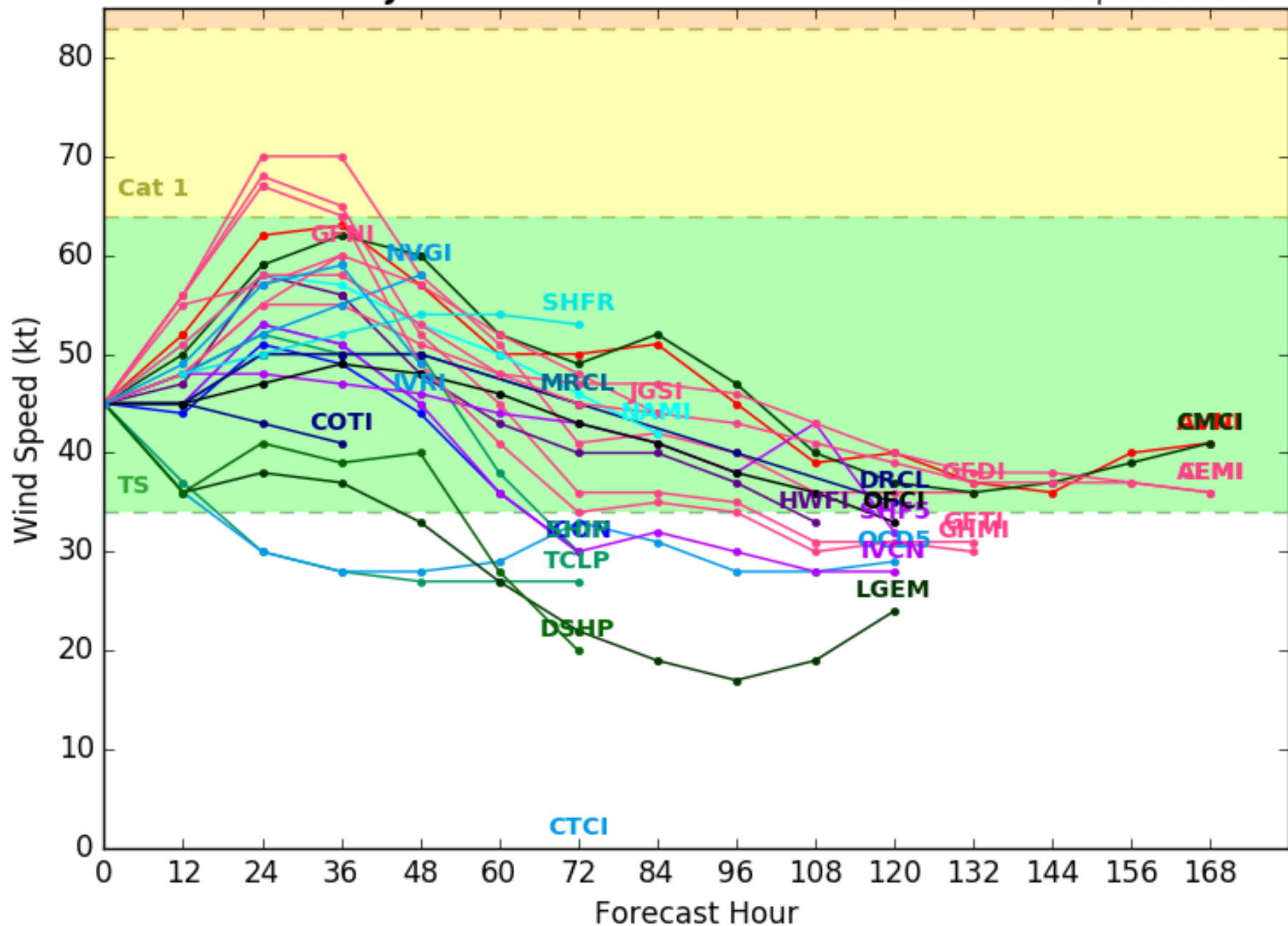
# Current Wind Shear (shaded) and Shear Tendency (lines)



Shear Tendency (KTS) Over Past 24 Hours: Increasing — Decreasing ----

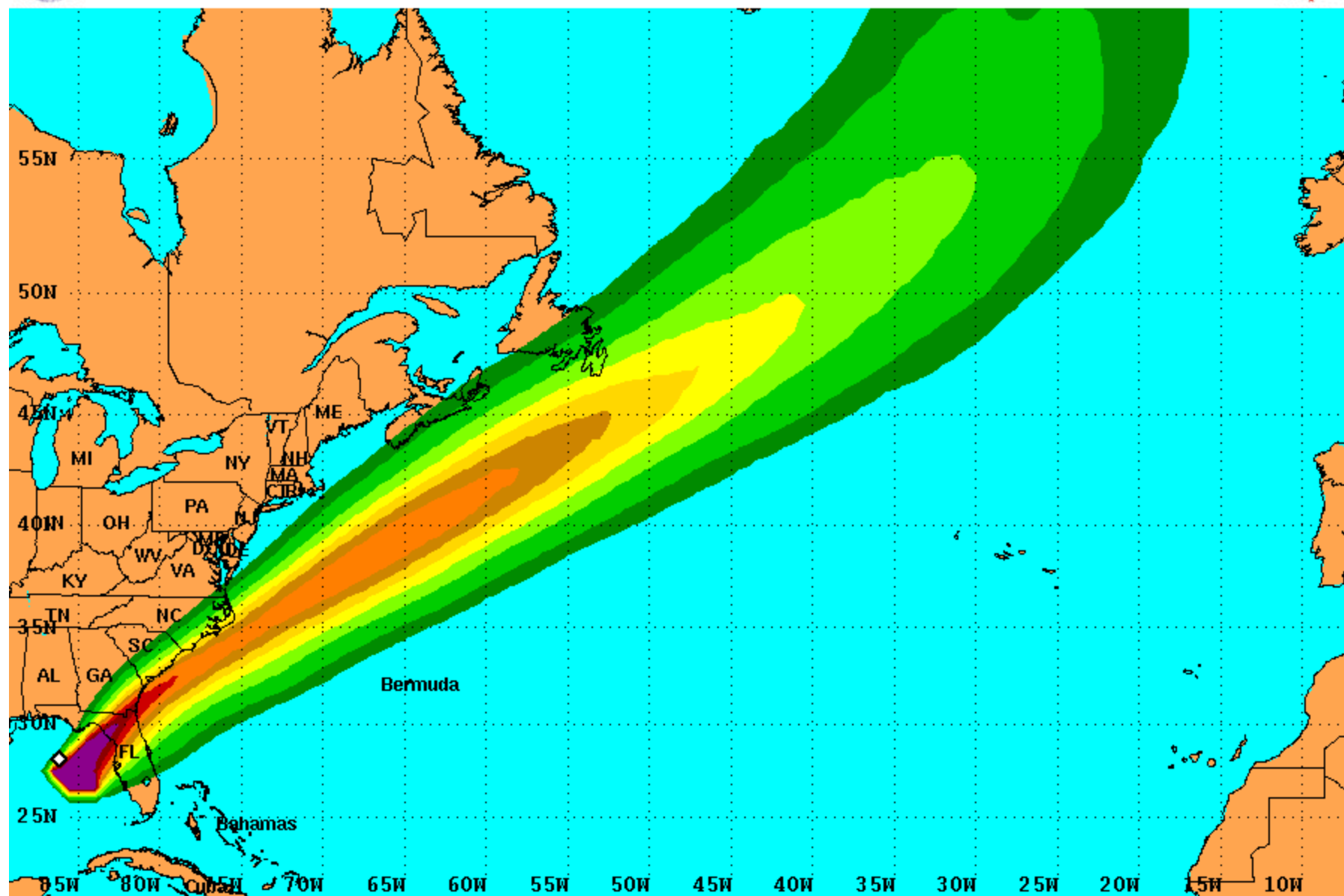


Levi Cowan - [tropicaltidbits.com](http://tropicaltidbits.com)





# PRELIMINARY (SINGLE STORM) Tropical Storm Force Wind Speed Probabilities For the 120 hours (5 days) from 1 PM CDT Mon Jun 6 to 1 PM CDT Sat Jun 11



Probability of sustained tropical storm force surface winds (1-minute average of 39 mph or greater)

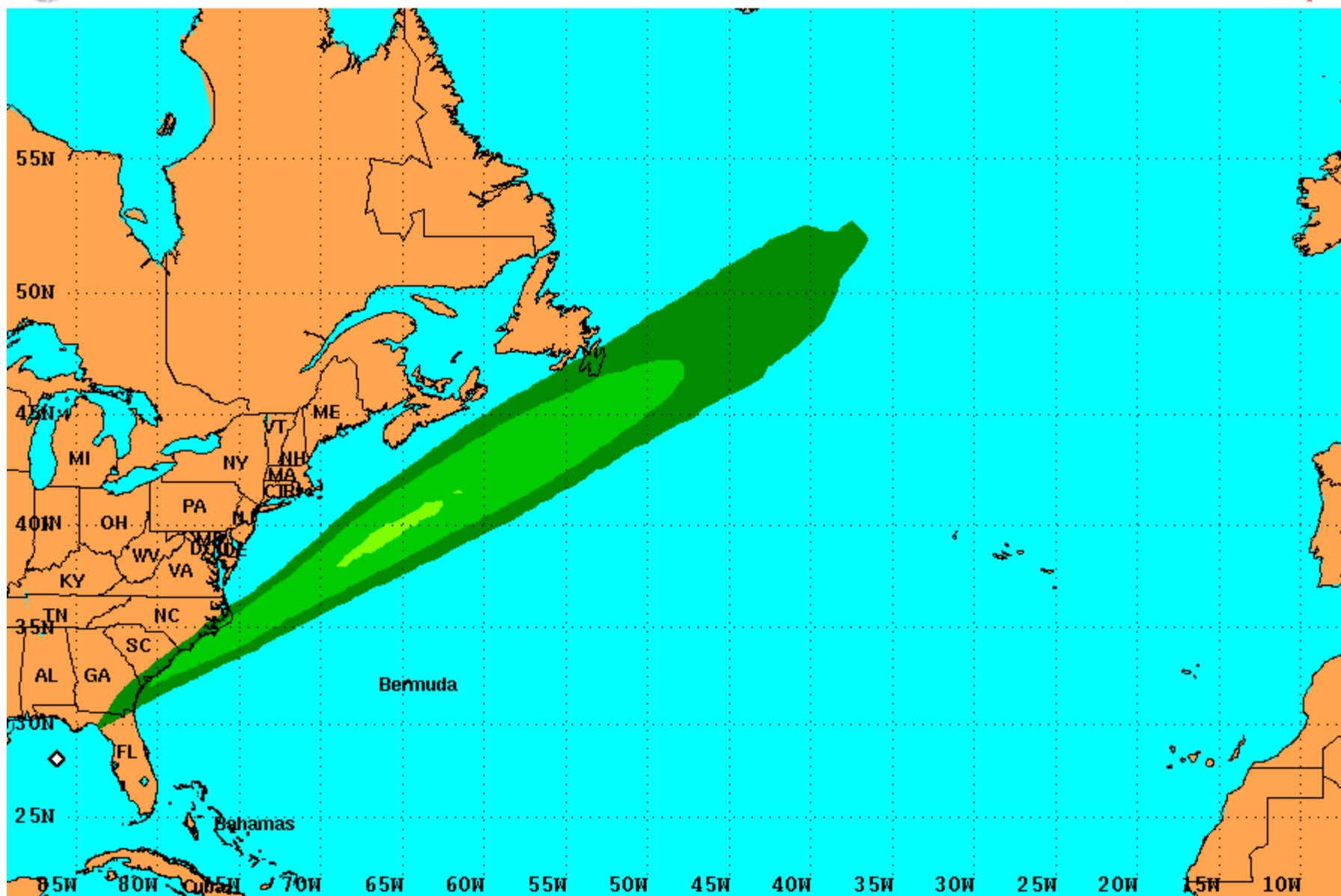
◇ indicates TROPICAL STORM COLIN center location at 1 PM CDT Mon Jun 6 2016 (Forecast/Advisory #6)







**PRELIMINARY (SINGLE STORM) 50-knot Wind Speed Probabilities**  
For the 120 hours (5 days) from 1 PM CDT Mon Jun 6 to 1 PM CDT Sat Jun 11

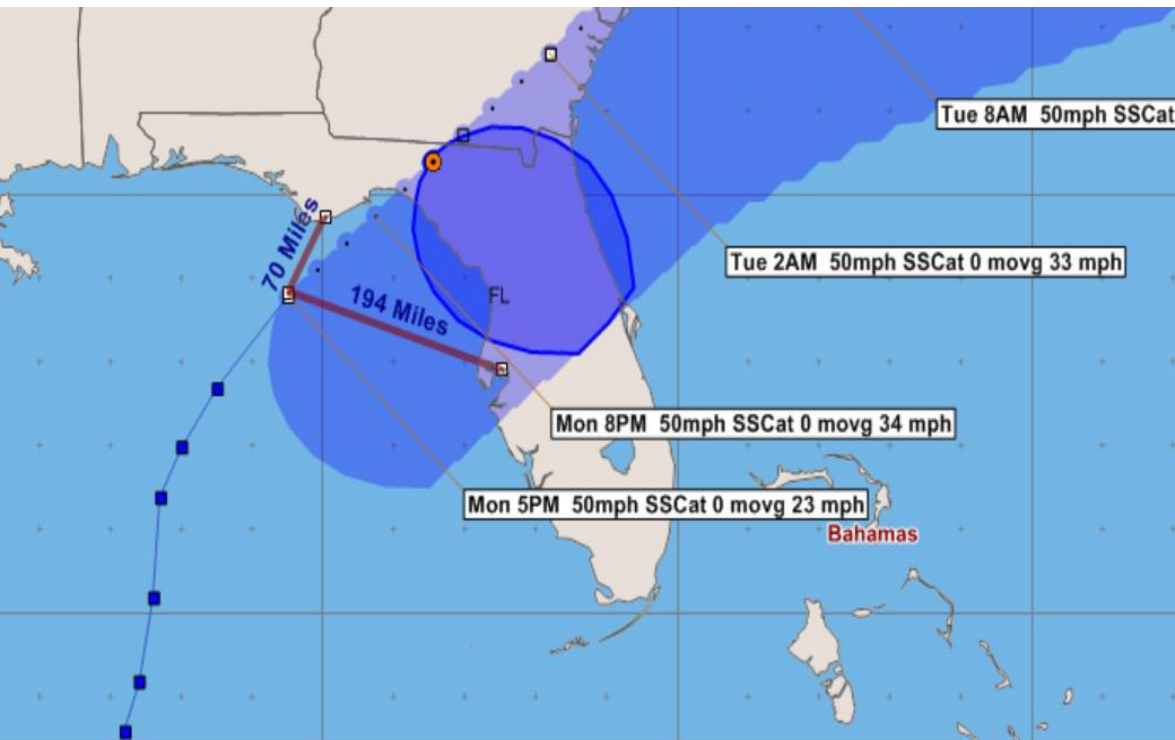


Probability of 1-minute average 50-knot (58 mph) or greater surface winds

◇ indicates TROPICAL STORM COLIN center location at 1 PM CDT Mon Jun 6 2016 (Forecast/Advisory #6)



# Hurrevac Forecast Wind Swath



Tropical Storm Colin - Monday, June 6, 2016 10 PM EDT (Fcst Hr 5) Advisory #6

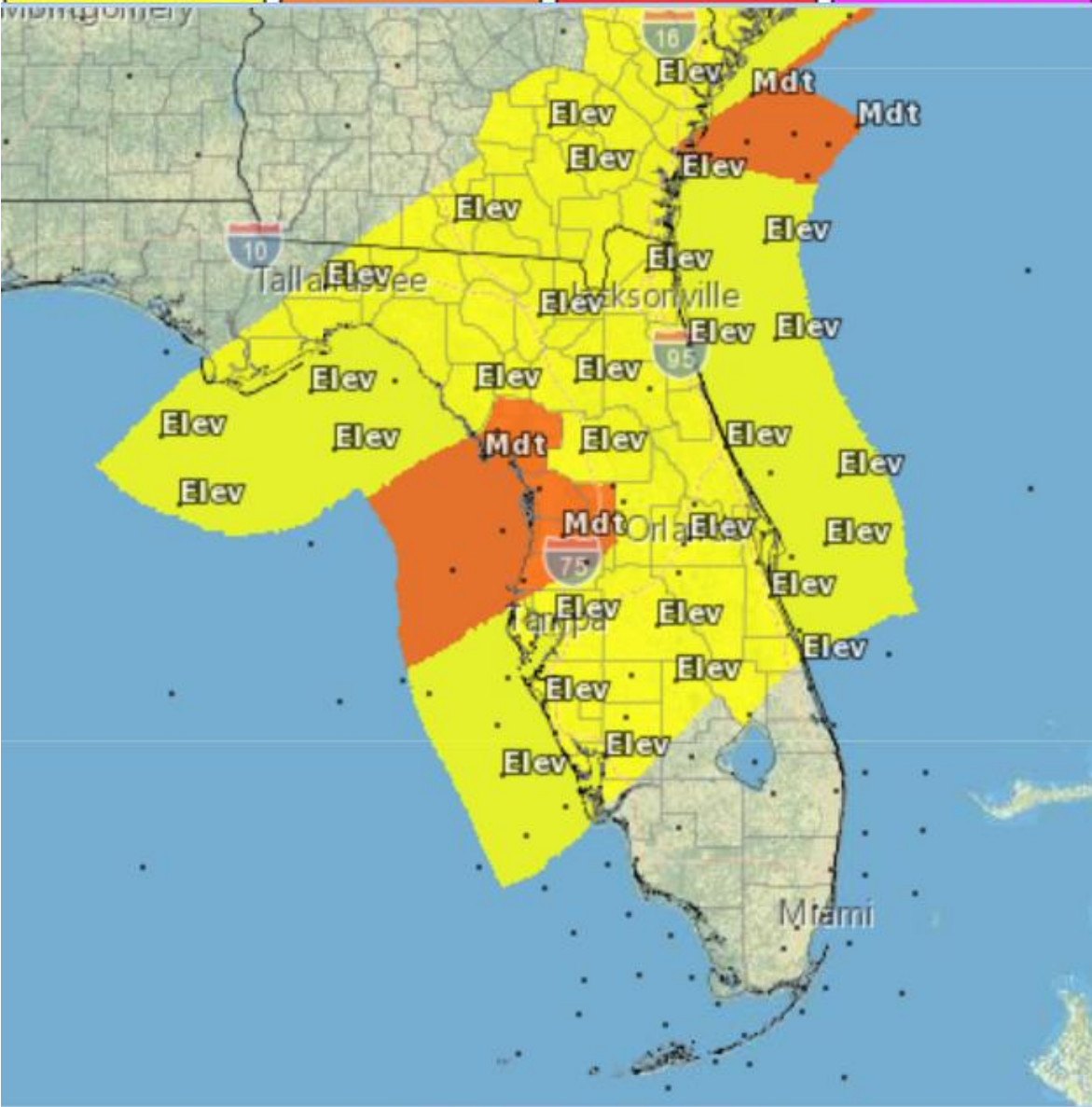
Center Location: 30.4 N 83.4 W Maximum Sustained Winds: 50 mph Movement: 33 mph NE

forecast positions Surface Wind Field: at current location along 3-day forecast track

Sustained Wind Speeds: tropical storm  $\geq 34$ kt/39mph strong tropical storm  $\geq 50$ kt/58mph hurricane  $\geq 64$ kt/74mph

- Max wind to be within rain bands as they pass through county
- Barrier Islands and areas near coast: Sustained 45-50 mph with higher gusts
- Inland: 35-40 mph with gusts to 50 mph

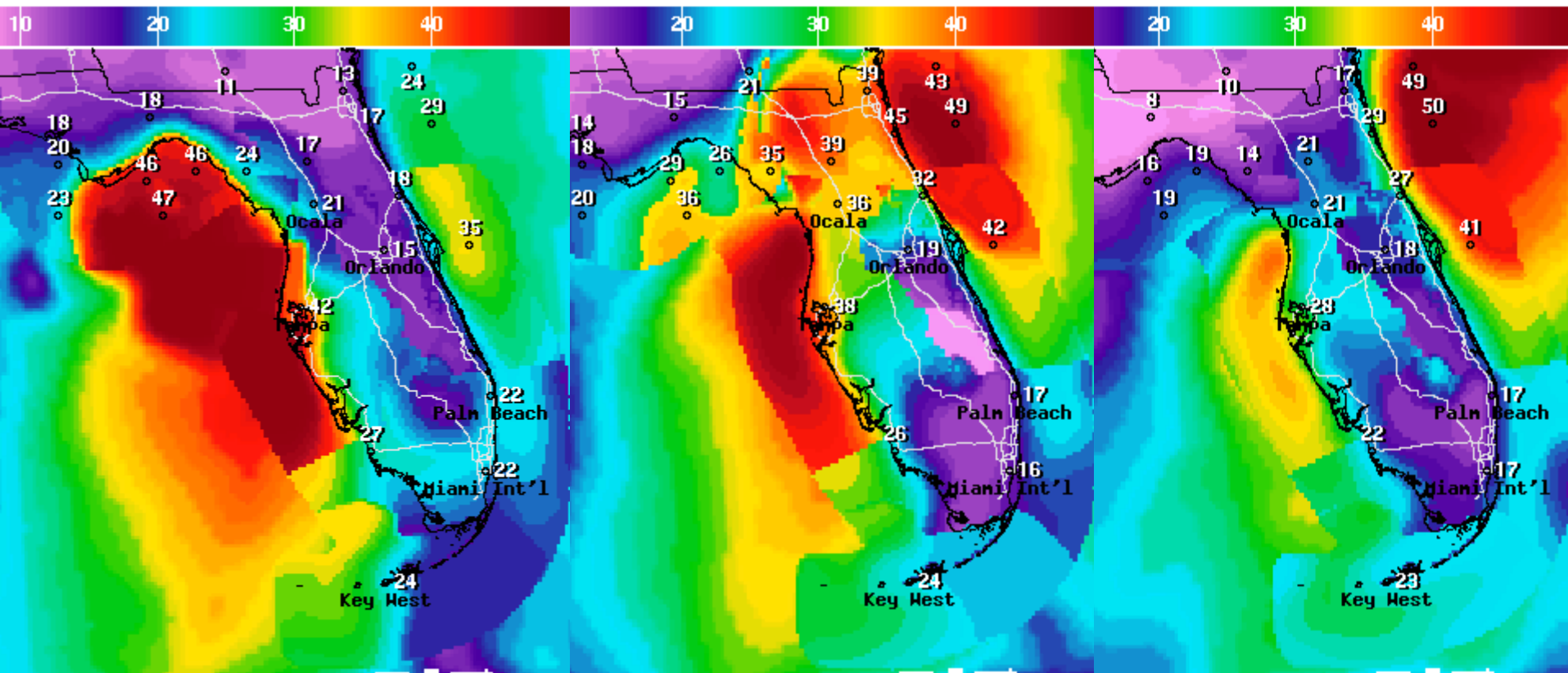




- Elevated - potential for winds equal to or greater than 39 mph and less than 58 mph.
- Moderate – potential for winds equal to or greater than 58 mph and less than 74 mph.

Hurricane Wind Threat  
Through: Wed, Jun 8 2016, 8 PM EDT  
Issued: Jun 06 at 2 PM EDT

# Forecast Wind Gusts (knots) – Tonight



Wind Gust(Kts) Mon Jun 06 2016 5PM EDT  
(Mon Jun 06 2016 21Z)

National Digital Forecast Database  
Graphic created-Jun 06 2:43PM EDT



Wind Gust(Kts) Mon Jun 06 2016 11PM EDT  
(Tue Jun 07 2016 03Z)

National Digital Forecast Database  
Graphic created-Jun 06 2:50PM EDT

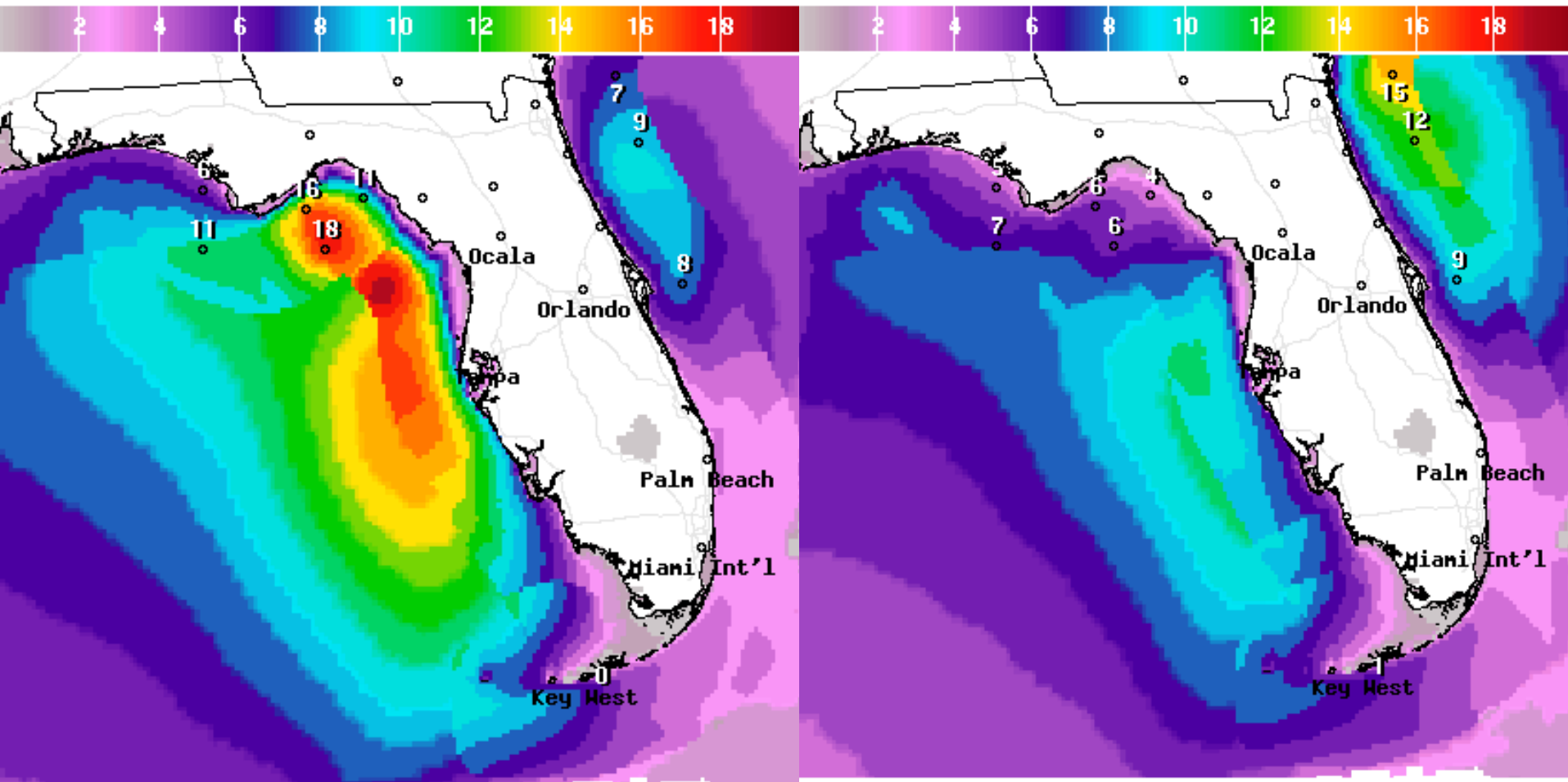


Gust(Kts) Tue Jun 07 2016 5AM EDT  
(Tue Jun 07 2016 09Z)

Digital Forecast Database  
Graphic created-Jun 06 2:43PM EDT



# Forecast Wave Heights (feet) – Tonight



Wave Height(ft) Ending Mon Jun 06 2016 8PM EDT

(Tue Jun 07 2016 00Z)



National Digital Forecast Database

18z issuance

Graphic created-Jun 06 2:39PM EDT



Wave Height(ft) Ending Tue Jun 07 2016 2AM EDT

(Tue Jun 07 2016 06Z)



National Digital Forecast Database

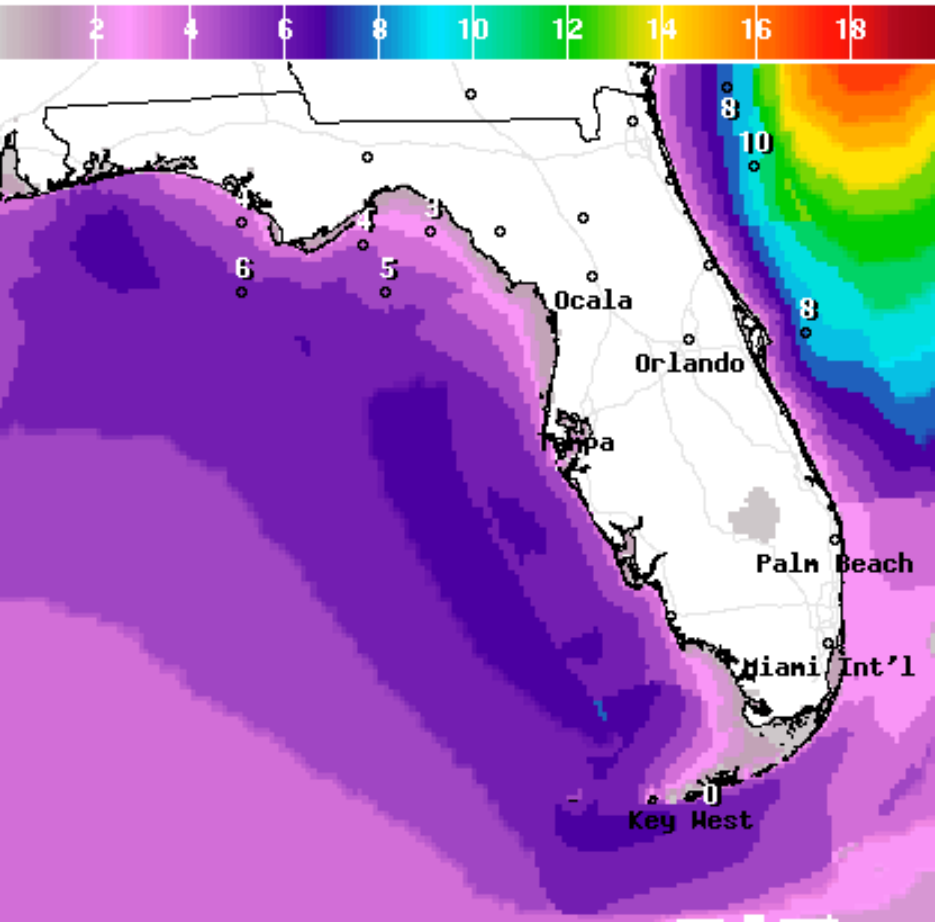
18z issuance

Graphic created-Jun 06 2:39PM EDT





# Forecast Wave Heights (feet) – Tuesday



Wave Height(ft) Ending Tue Jun 07 2016 8AM EDT

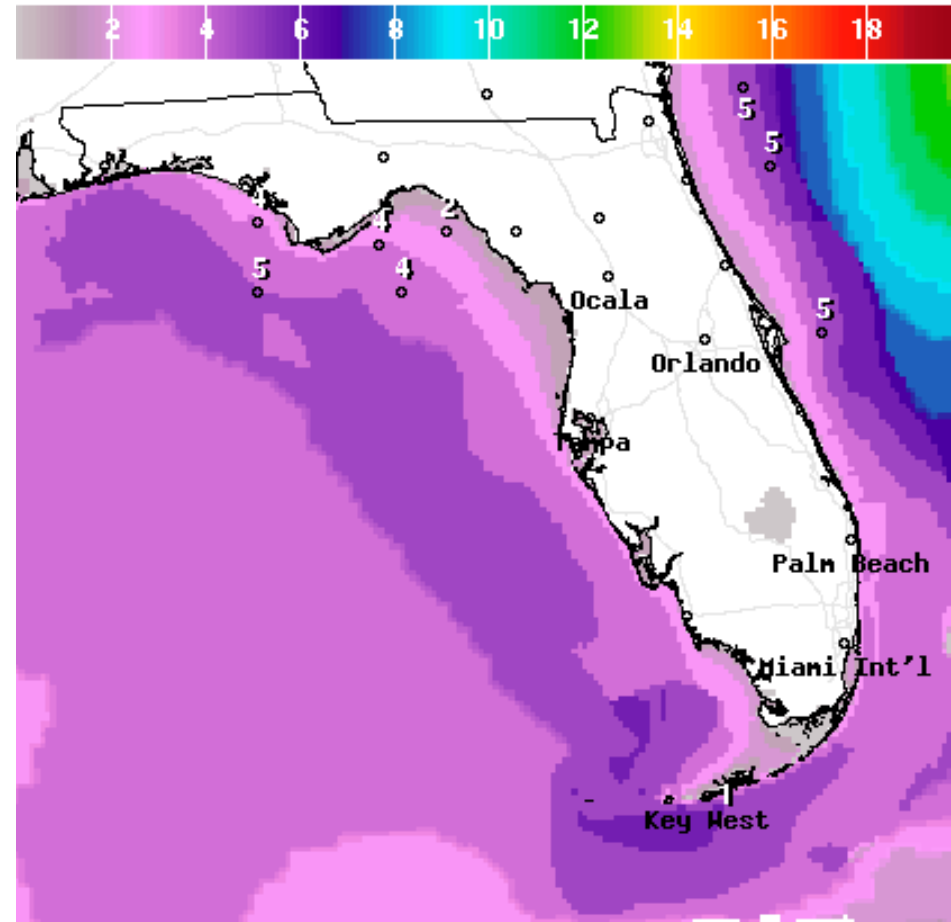
(Tue Jun 07 2016 12Z)



**National Digital Forecast Database**

18z issuance

Graphic created-Jun 06 2:39PM EDT



Wave Height(ft) Ending Tue Jun 07 2016 2PM EDT

(Tue Jun 07 2016 18Z)



**National Digital Forecast Database**

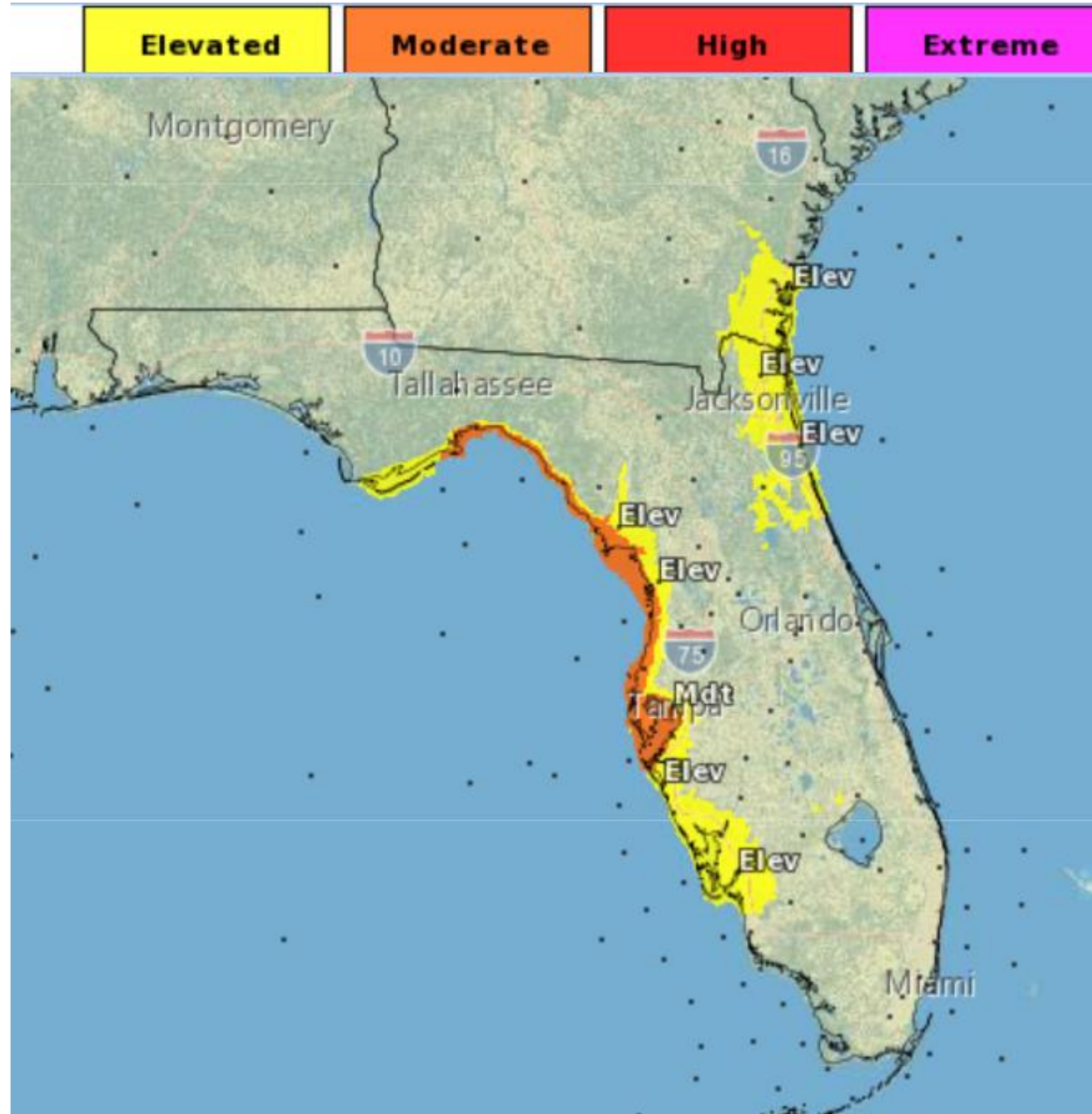
18z issuance

Graphic created-Jun 06 2:40PM EDT



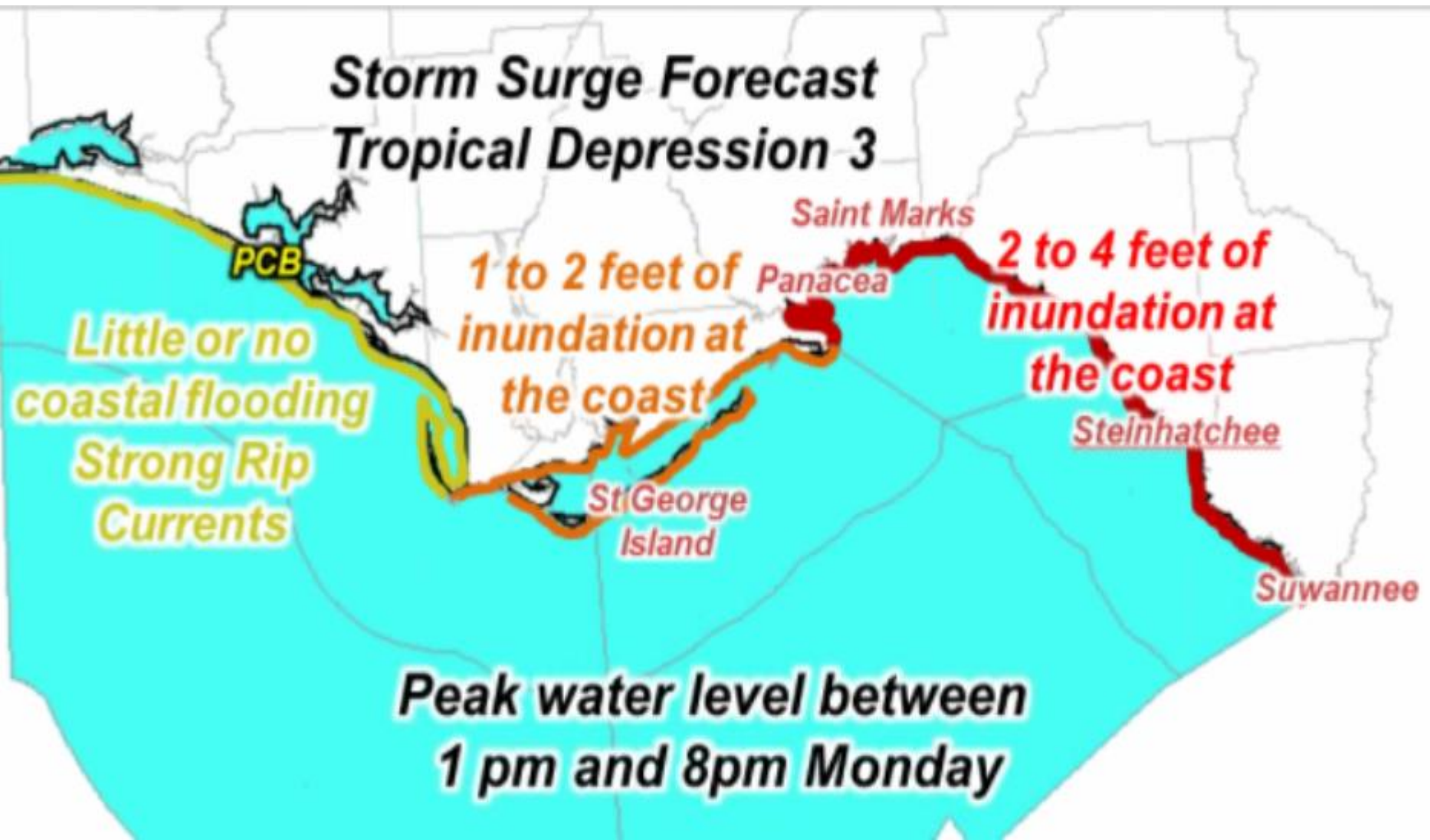
ELEVATED - Potential for inundation from storm surge plus tide to be greater or equal to 1 foot and less than 3 feet AGL

MODERATE - Potential for inundation from storm surge plus tide to be greater or equal to 3 feet and less than 6 feet AGL

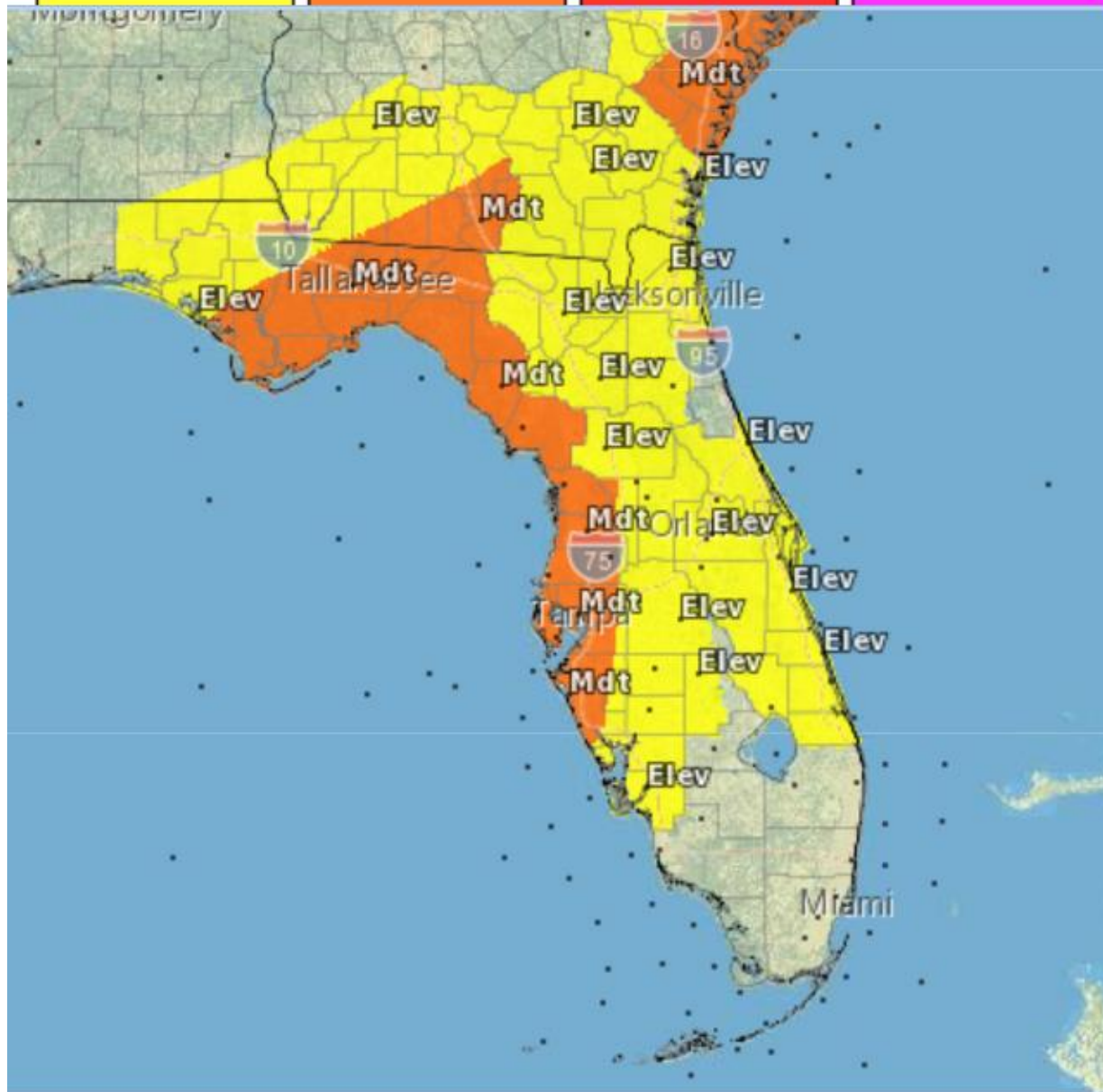


Hurricane Storm Surge Threat  
Through: Wed, Jun 8 2016, 8 PM EDT  
Issued: Jun 06 at 4 PM EDT

# National Weather Service Tallahassee



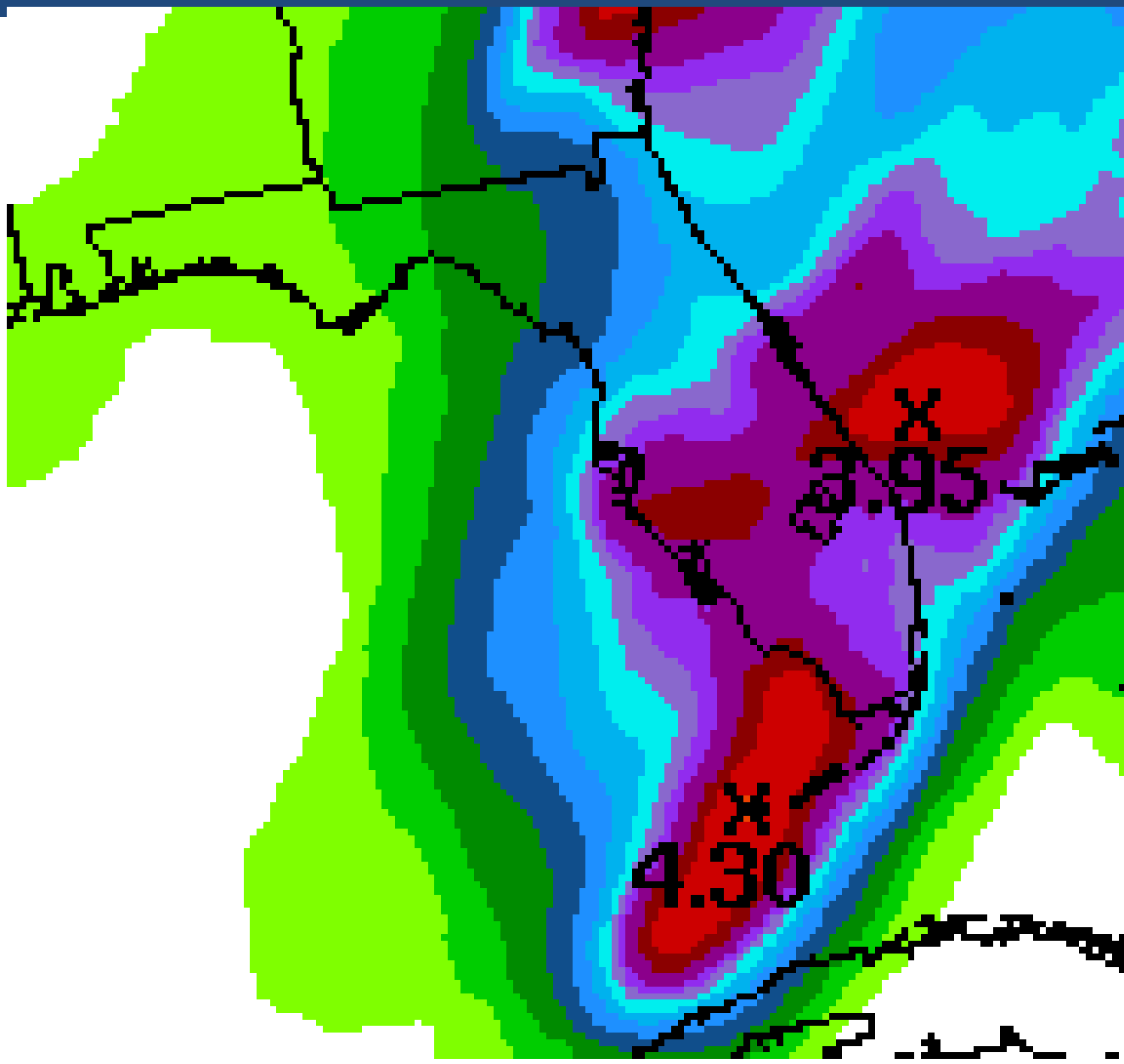


**Elevated****Moderate****High****Extreme**

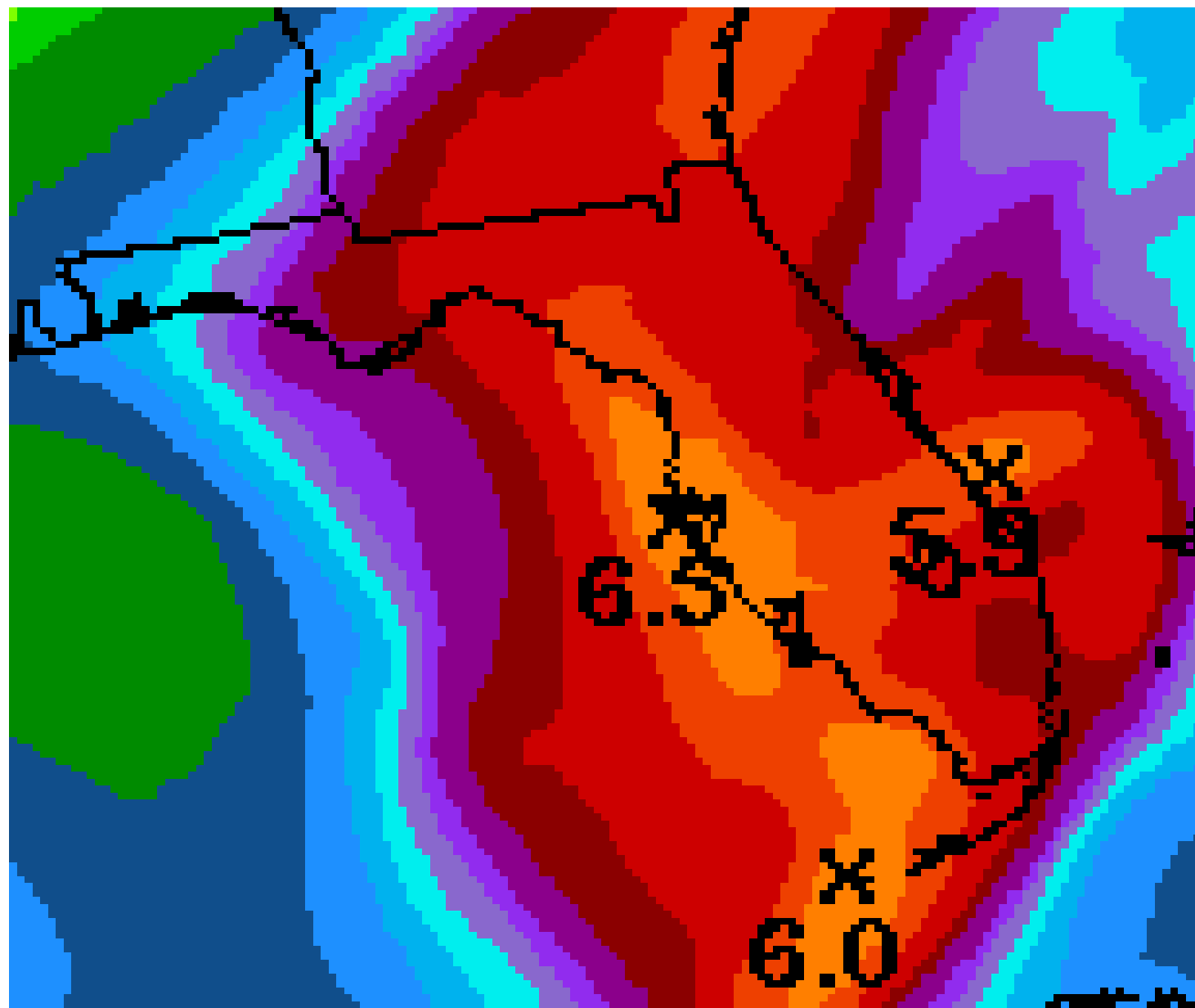
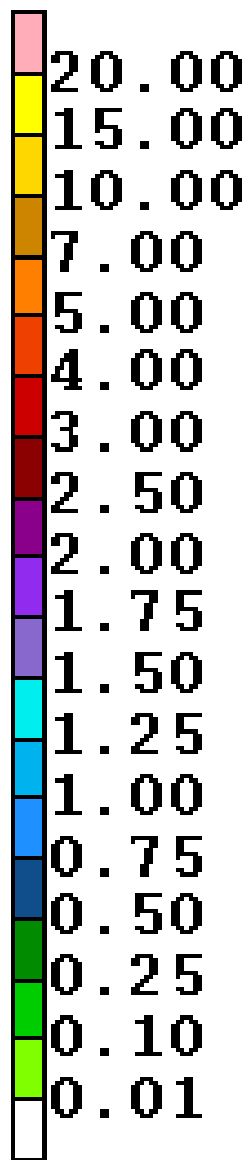
- Elevated - Potential for highest rain amounts near values conducive to flash flooding capable of resulting in limited damage from fresh water flooding.
- Moderate - Potential for highest rain amounts to notably exceed values conducive to flash flooding capable of producing significant damage from fresh water flooding.

Hurricane Flooding Rain Threat  
Through: Wed, Jun 8 2016, 8 PM EDT  
Issued: Jun 06 at 2 PM EDT

# *Forecast Total Rainfall Accumulations for next 3 Days*

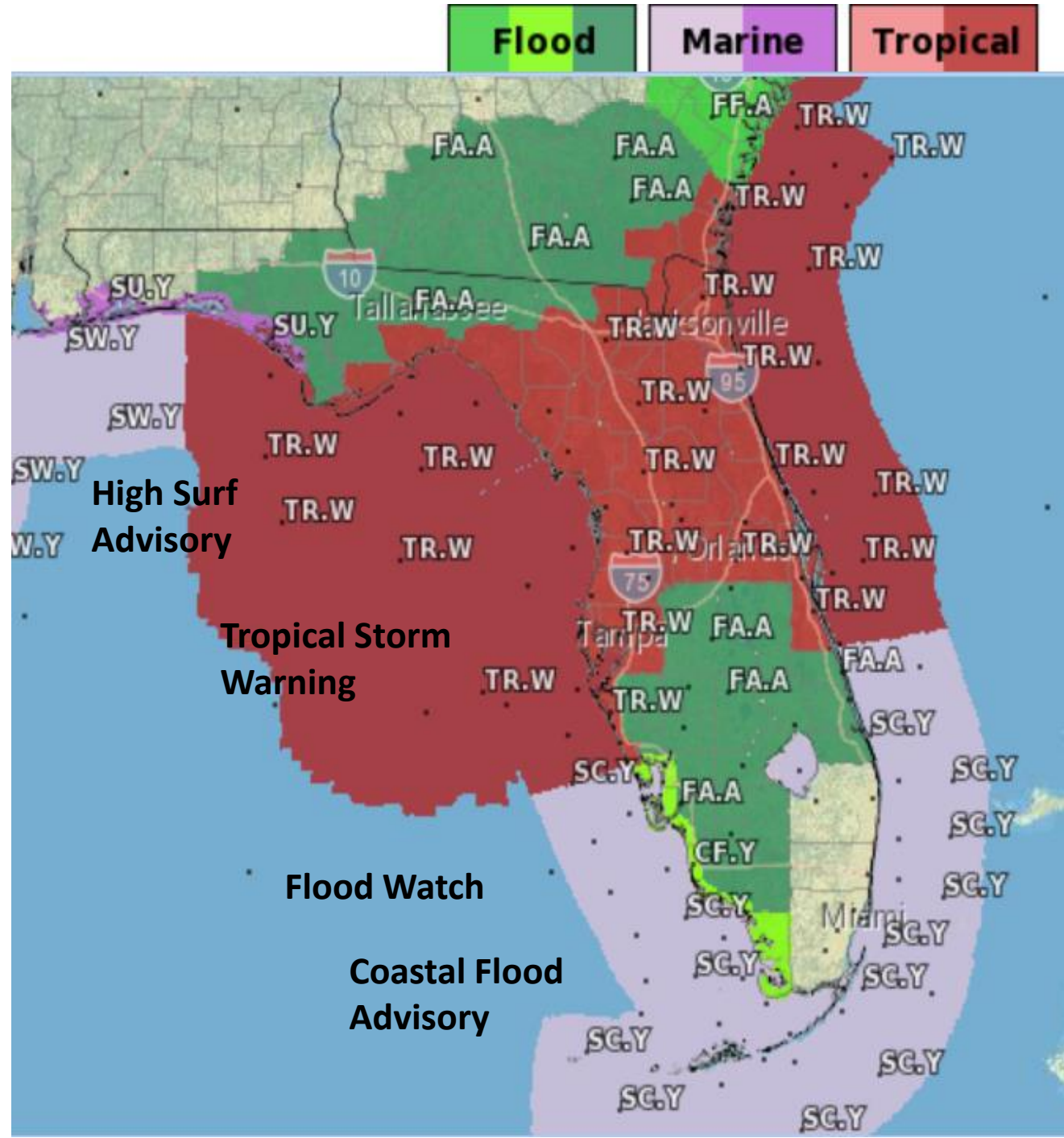


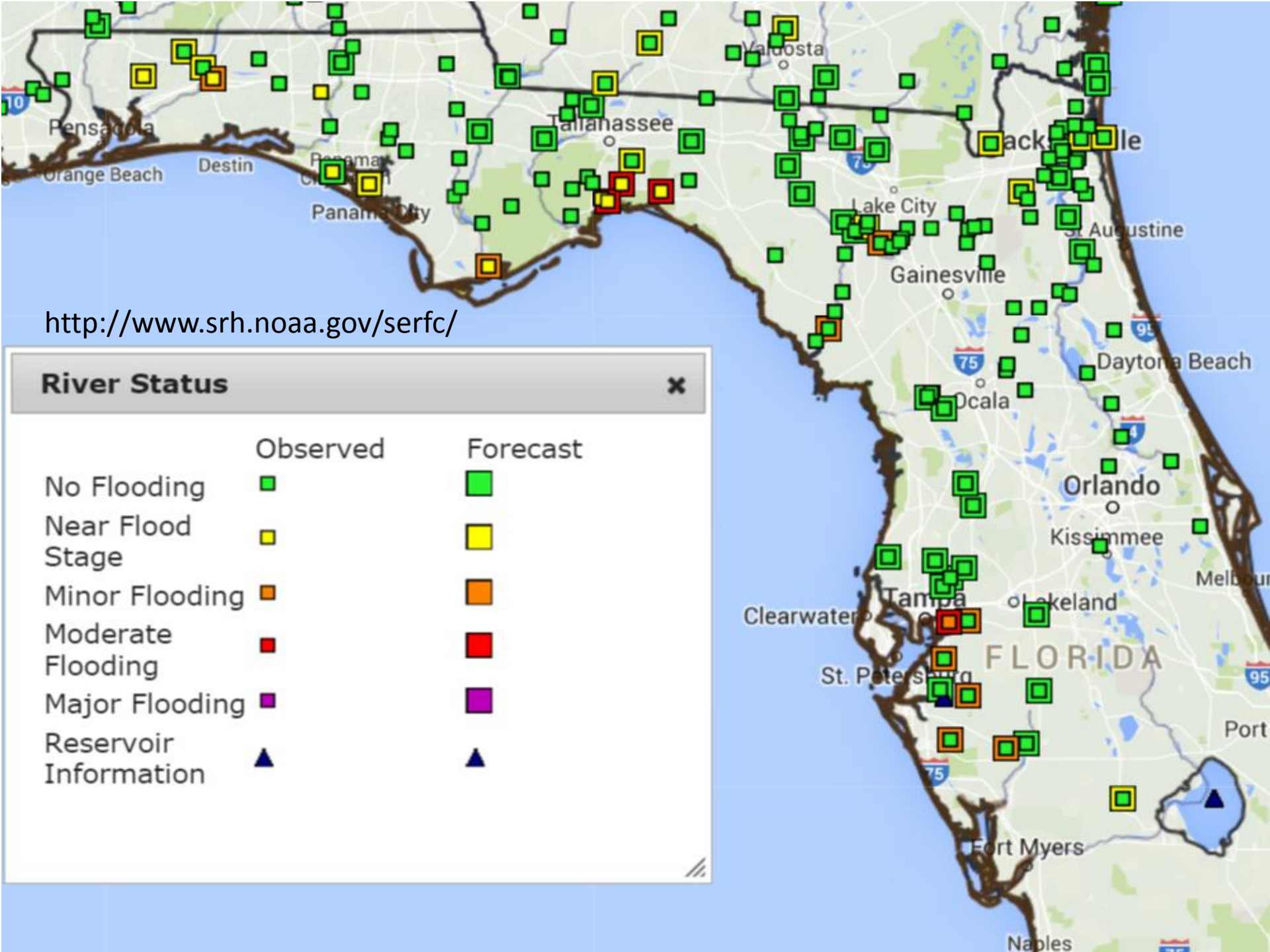
# *Forecast Total Rainfall Accumulations for next 7 Days*





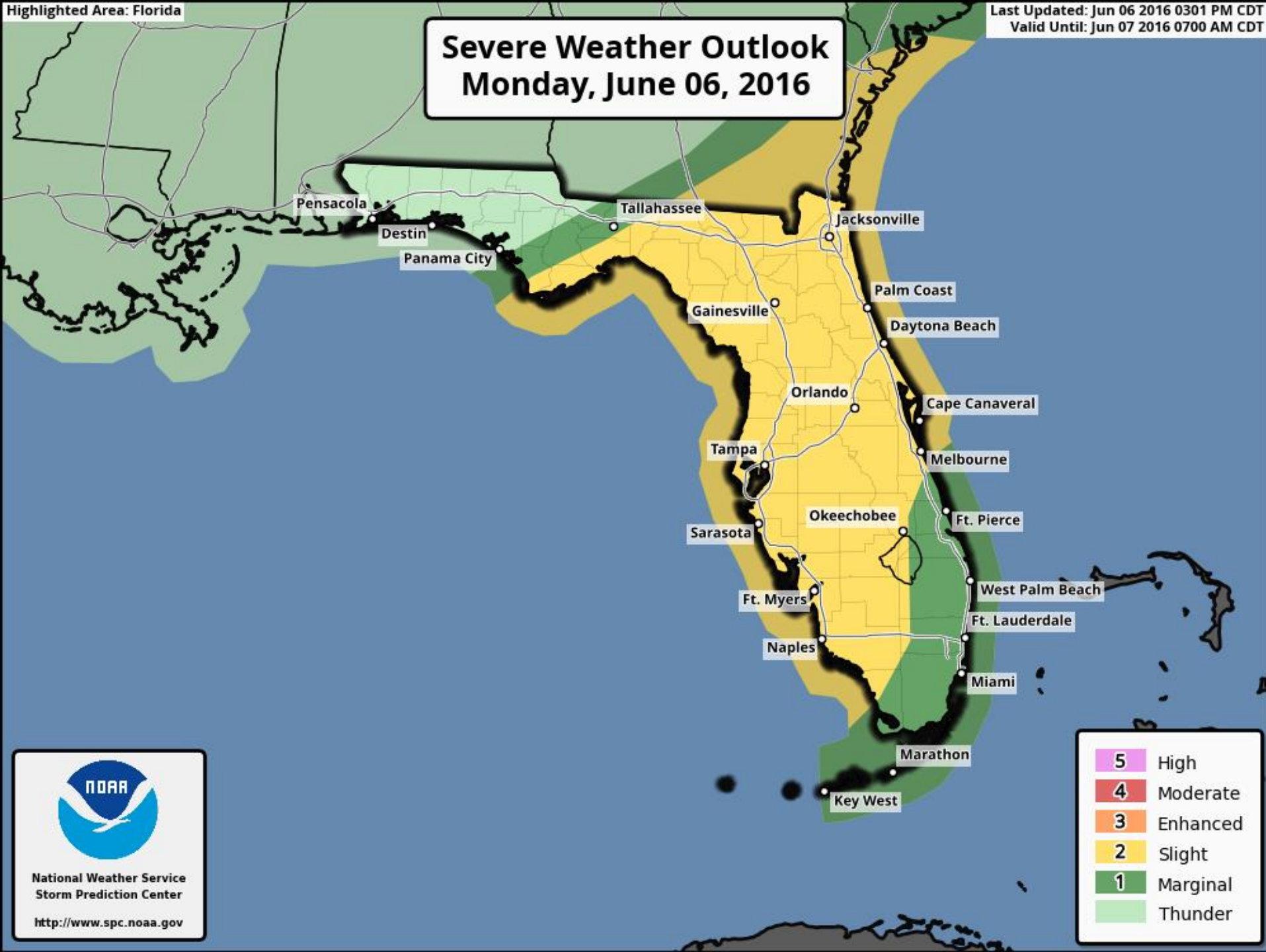
# Current Watches, Warnings and Advisories







## Severe Weather Outlook Monday, June 06, 2016

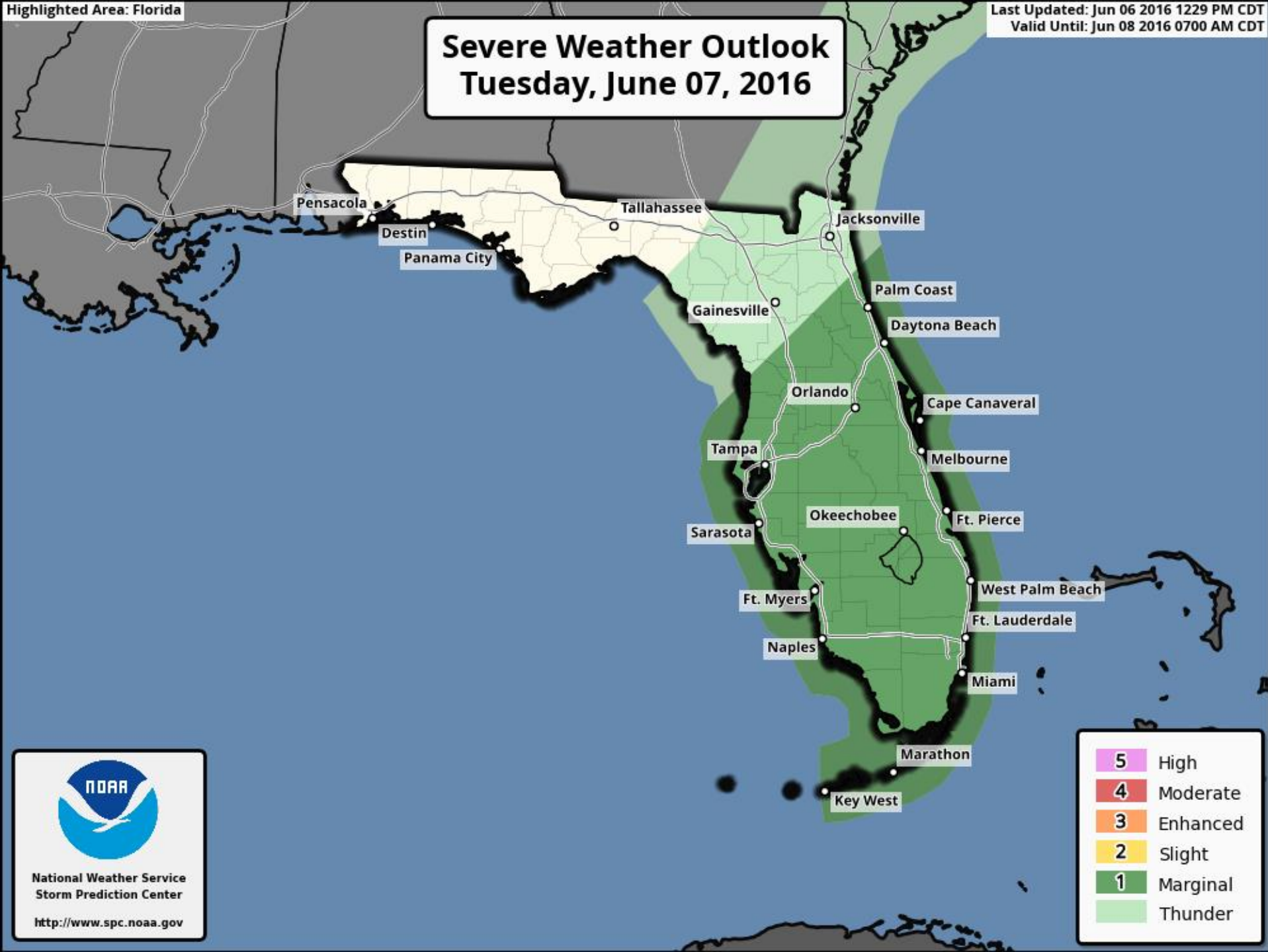


National Weather Service  
Storm Prediction Center

<http://www.spc.noaa.gov>



# Severe Weather Outlook Tuesday, June 07, 2016









National Weather Service  
Storm Prediction Center

<http://www.spc.noaa.gov>

5	High
4	Moderate
3	Enhanced
2	Slight
1	Marginal
	Thunder

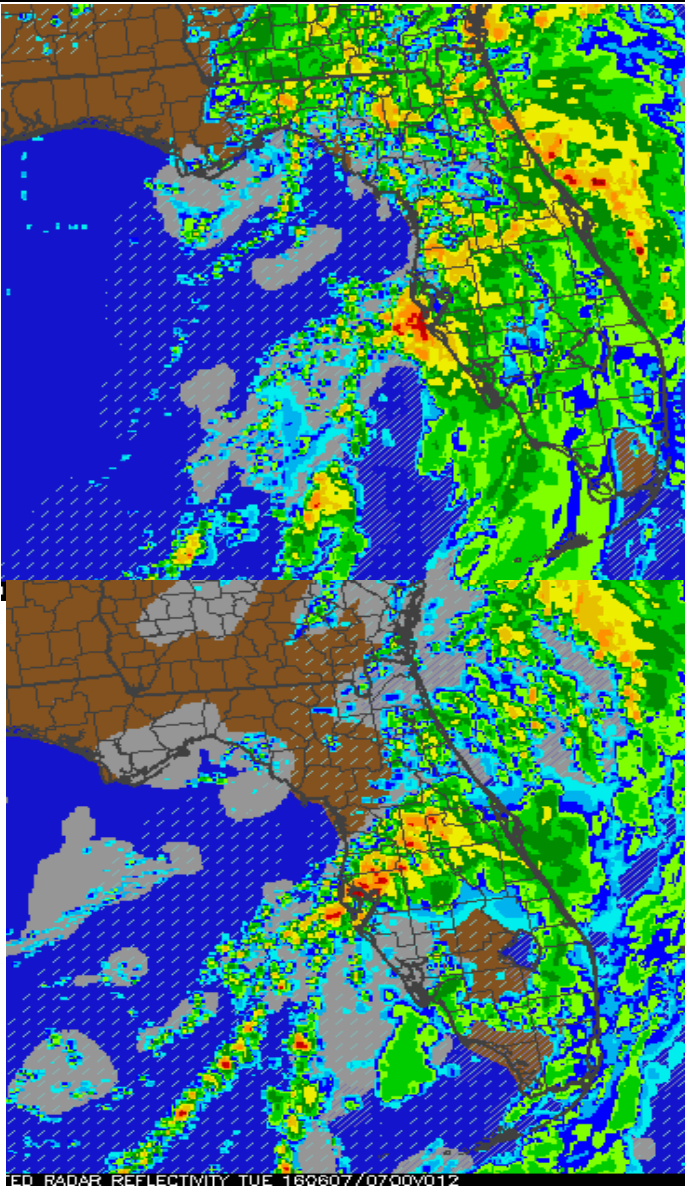
# Understanding Severe Thunderstorm Risk Categories

THUNDERSTORMS (no label)	1 - MARGINAL (MRGL)	2 - SLIGHT (SLGT)	3 - ENHANCED (ENH)	4 - MODERATE (MDT)	5 - HIGH (HIGH)
<b>No severe* thunderstorms expected</b>	<b>Isolated severe thunderstorms possible</b>	<b>Scattered severe storms possible</b>	<b>Numerous severe storms possible</b>	<b>Widespread severe storms likely</b>	<b>Widespread severe storms expected</b>
Lightning/flooding threats exist with <u>all</u> thunderstorms	Limited in duration and/or coverage and/or intensity	Short-lived and/or not widespread, isolated intense storms possible	More persistent and/or widespread, a few intense	Long-lived, widespread and intense	Long-lived, very widespread and particularly intense
					
<ul style="list-style-type: none"> <li>• Winds to 40 mph</li> <li>• Small hail</li> </ul>	<ul style="list-style-type: none"> <li>• Winds 40-60 mph</li> <li>• Hail up to 1"</li> <li>• Low tornado risk</li> </ul>	<ul style="list-style-type: none"> <li>• One or two tornadoes</li> <li>• Reports of strong winds/wind damage</li> <li>• Hail ~1", isolated 2"</li> </ul>	<ul style="list-style-type: none"> <li>• A few tornadoes</li> <li>• Several reports of wind damage</li> <li>• Damaging hail, 1 - 2"</li> </ul>	<ul style="list-style-type: none"> <li>• Strong tornadoes</li> <li>• Widespread wind damage</li> <li>• Destructive hail, 2" +</li> </ul>	<ul style="list-style-type: none"> <li>• Tornado outbreak</li> <li>• Derecho</li> </ul>

\* NWS defines a severe thunderstorm as measured wind gusts to at least 58 mph, and/or hail to at least one inch in diameter, and/or a tornado. All thunderstorm categories imply lightning and the potential for flooding. Categories are also tied to the probability of a severe weather event within 25 miles of your location.

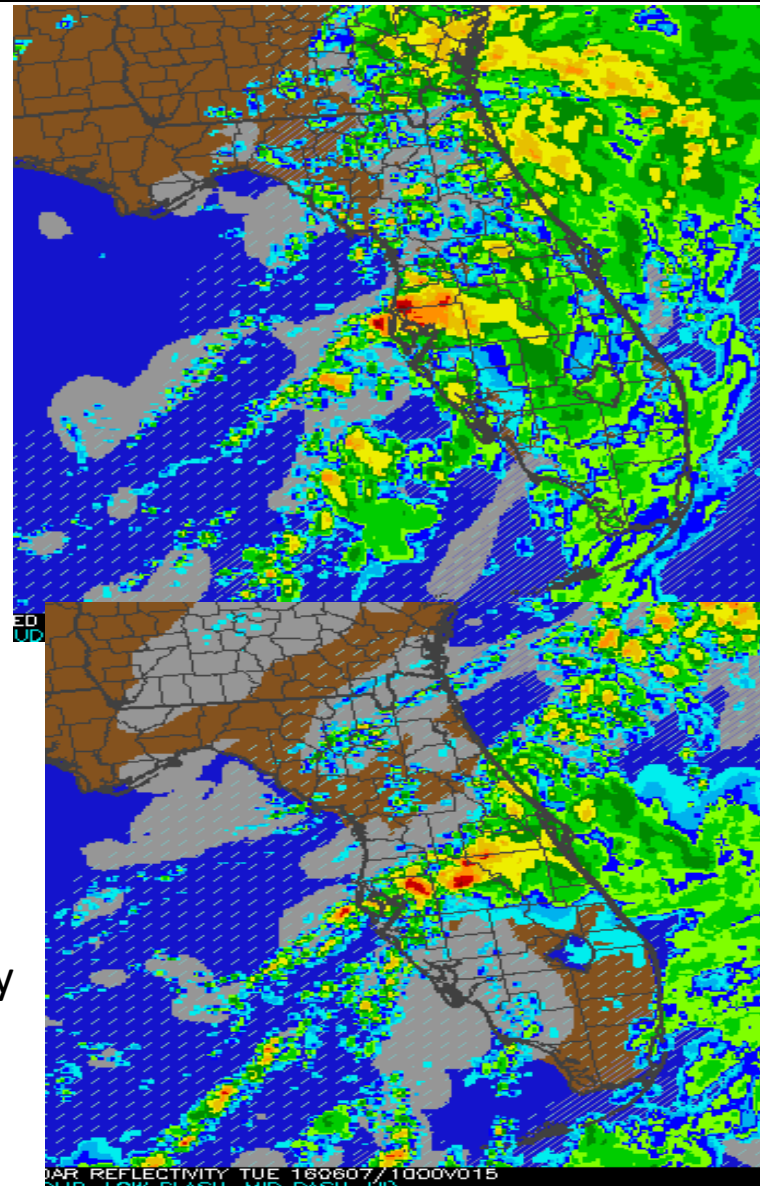


# Model Forecast “Future” Radar



Monday  
8pm

Monday  
11pm



Tuesday  
3am

Tuesday  
6am



# Rain Chances (%)

The image displays three maps of Florida, each showing the probability of rain for a specific time period. The maps are color-coded according to a scale at the bottom, ranging from 10% (light yellow) to 90% (dark green). Major cities labeled on the maps include Ocala, Orlando, Tampa, Palm Beach, Miami Int'l, and Key West.

- Tuesday:** Shows a mix of low (10-30%) and moderate (40-60%) rain chances across the state.
- Tuesday Night:** Shows a significant increase in rain chances, with many areas reaching 60-80%.
- Wednesday:** Shows the highest overall probability of rain, with most of the state in the 60-90% range.

**Tuesday**

**Tuesday Night**

**Wednesday**

10 20 30 40 50 60 70 80 90

# Tuesday

# Wednesday

# Tuesday Night



**Summary:**

- At 5pm EDT Monday, Tropical Storm Colin was located in the northeastern Gulf of Mexico about 70 miles southwest of Apalachicola, or about 190 miles west-northwest of Tampa.
- Maximum sustained winds remain near 50 mph with higher gusts, and additional strengthening is unlikely before moving inland. Colin is expected to become post-tropical tomorrow.
- Colin is moving quickly north-northeast at 23 mph, but a turn to the northeast with an additional increase in forward speed is expected tonight and Tuesday.
- Colin is expected to make landfall within the next few hours along the Big Bend Coast and move into southeastern Georgia around midnight, exiting into the Atlantic near Savannah, Georgia, early Tuesday morning.
- Tropical-storm-force winds extend outward up to 230 miles, mainly to the east of the center.

**Florida Outlook:**

- The strongest winds and heaviest rains are well removed from the center. Thus, impacts from this system are expected to affect a majority of the state, especially near and east of where the center of the storm travels.
- **Tropical Storm Warnings** are in effect for 34 Florida counties: Franklin, Wakulla, Jefferson, Taylor, Dixie, Levy, Citrus, Hernando, Pasco, Pinellas, Hillsborough, Manatee, Sarasota, Flagler, St. Johns, Duval, Nassau, Volusia, Brevard, Orange, Seminole, Lake, Sumter, Marion, Alachua, Clay, Putnam, Bradford, Union, Baker, Columbia, Gilchrist, Suwannee and Lafayette. Wind gusts to 50 or 60 mph are possible in these areas. Gusts to 50mph have already been reported along the Gulf Coast.
- Rainfall and flooding remain the largest threat. Rainfall amounts of 1-3” have fallen across West Central Florida, Southwest Florida and the Florida Big Bend and eastern Panhandle, with higher amounts to 6-8” already reported in portions of Bay, Wakulla, Leon and Jefferson Counties.
- An additional 3-5” of rain is possible over the next 24 hours and **Flood Watches** remain in effect for 59 Counties.
- Severe thunderstorms with damaging winds and isolated tornadoes remain possible across the Florida Big Bend and entire Florida Peninsula tonight. The risk for severe weather will continue for the Peninsula on Tuesday.
- Increased wave heights will lead to a high risk of rip currents and minor coastal flooding and erosion as storm surge heights reach up to 4 feet (above normal tide) with breaking waves of up to 10 feet along much of the Gulf Coast, with the highest levels predicted in Apalachee Bay and along the Nature Coast. Increased waves are also expected along the Atlantic Coast on Tuesday with rip currents expected.

Another briefing packet will be issued Tuesday morning. For more information on this system visit the [NHC website](#).



# TROPICAL UPDATE

Created by:

Amy Godsey, Chief State Meteorologist  
[amy.godsey@em.myflorida.com](mailto:amy.godsey@em.myflorida.com)

State Meteorological Support Unit  
Florida Division of Emergency  
Management

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