



TROPICAL UPDATE

8 AM EDT

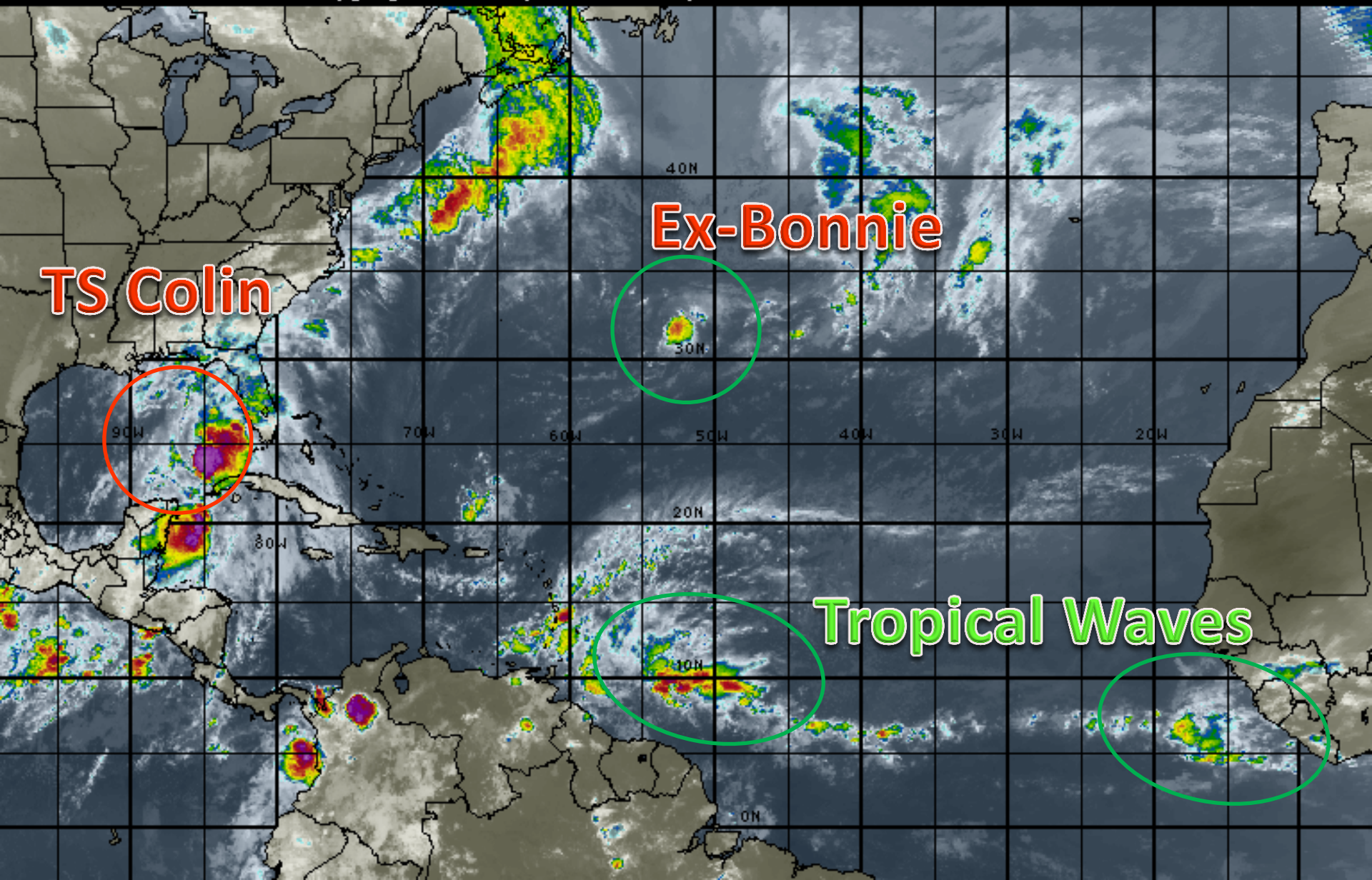
Monday, June 6, 2016

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.

Atlantic Basin Satellite Image

09:00 06-JUN-2016 GMT ©Copyright WSI Corporation <http://www.wsi.com>



Tropical Storm Colin

4 AM CDT Mon Jun 06 2016

Position: 25.2 N 87.4 W

Maximum Winds: 50 mph

Gusts: 65 mph

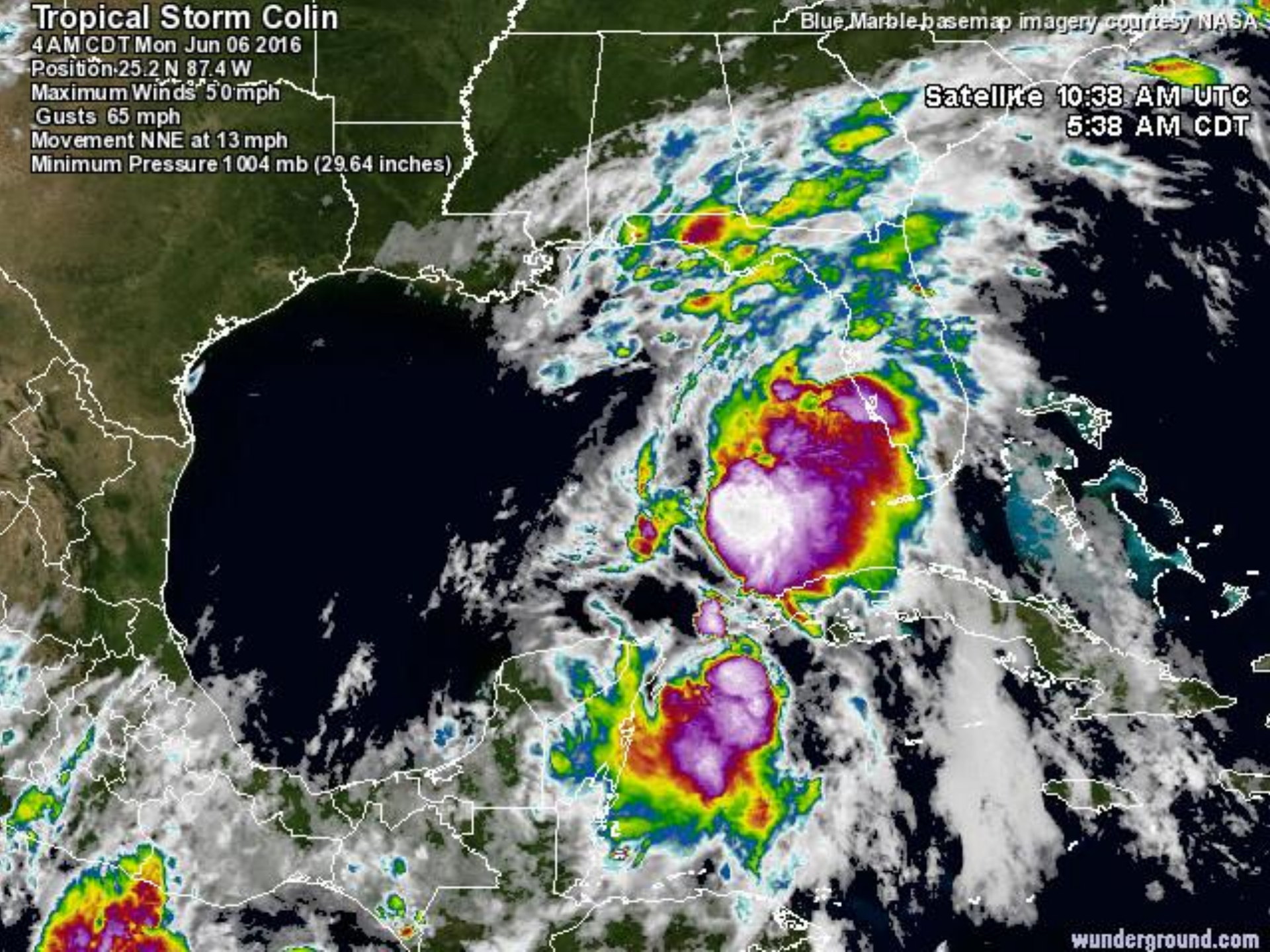
Movement: NNE at 13 mph

Minimum Pressure: 1004 mb (29.64 inches)

Blue Marble basemap imagery courtesy NASA

Satellite 10:38 AM UTC

5:38 AM CDT



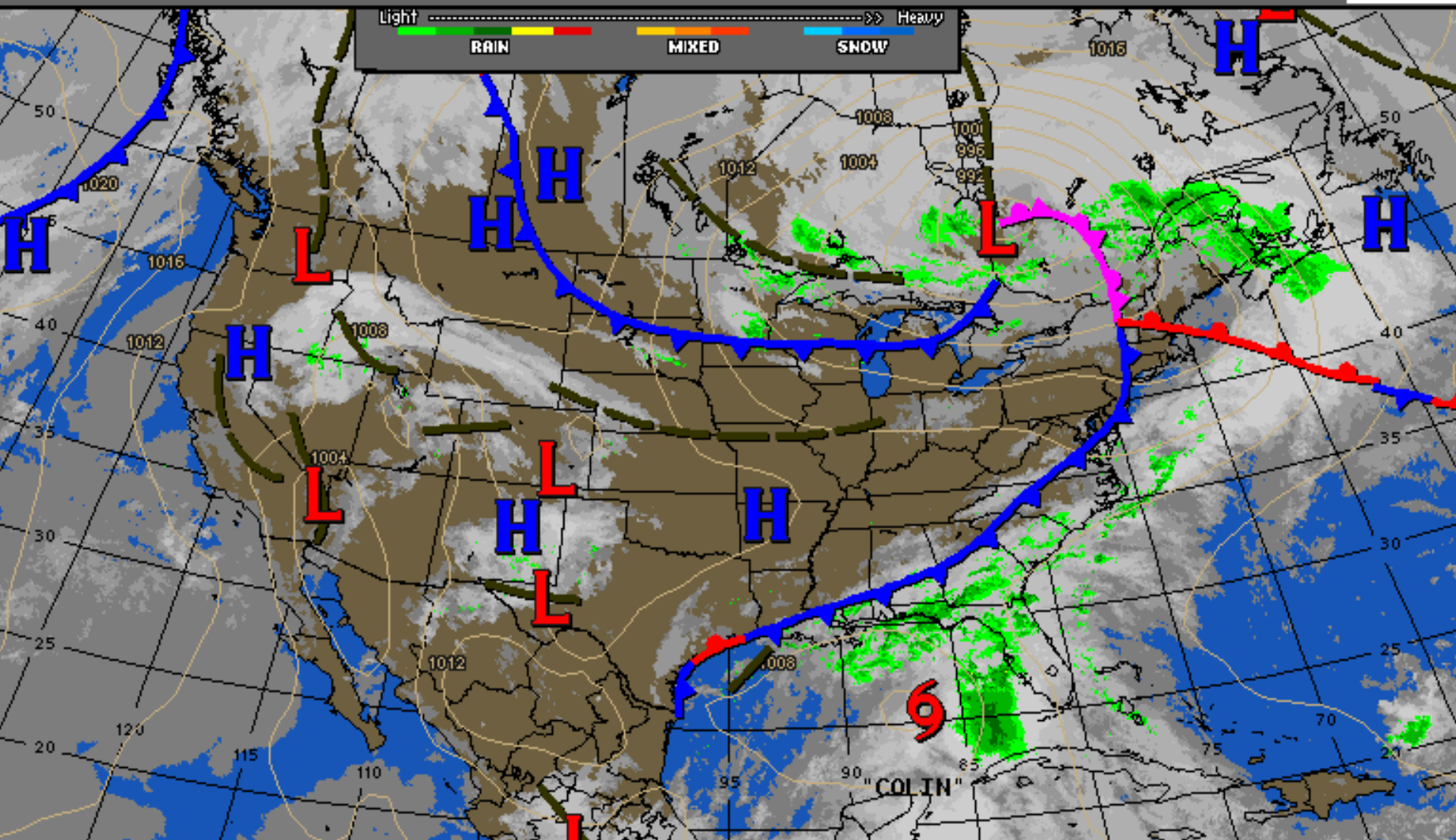
Surface Weather Map

10:30 06-JUN-2016 GMT ©Copyright WSI Corporation <http://www.wsi.com>

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

VALID AT 0900 UTC 06 Jun 16

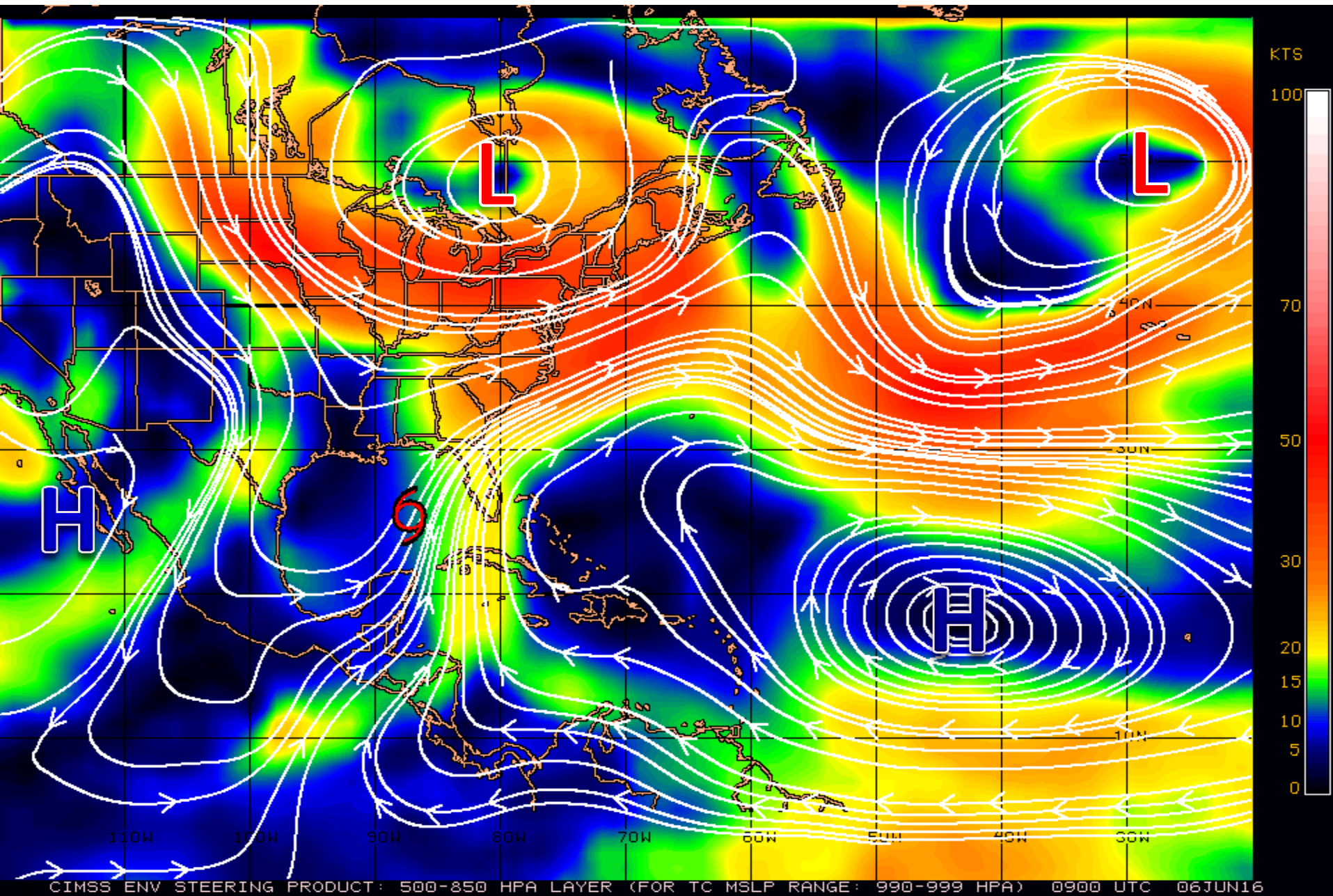
WSI®



UPDATED 10:36 UTC 06 Jun 16

UPDATED EVERY 3 HOURS

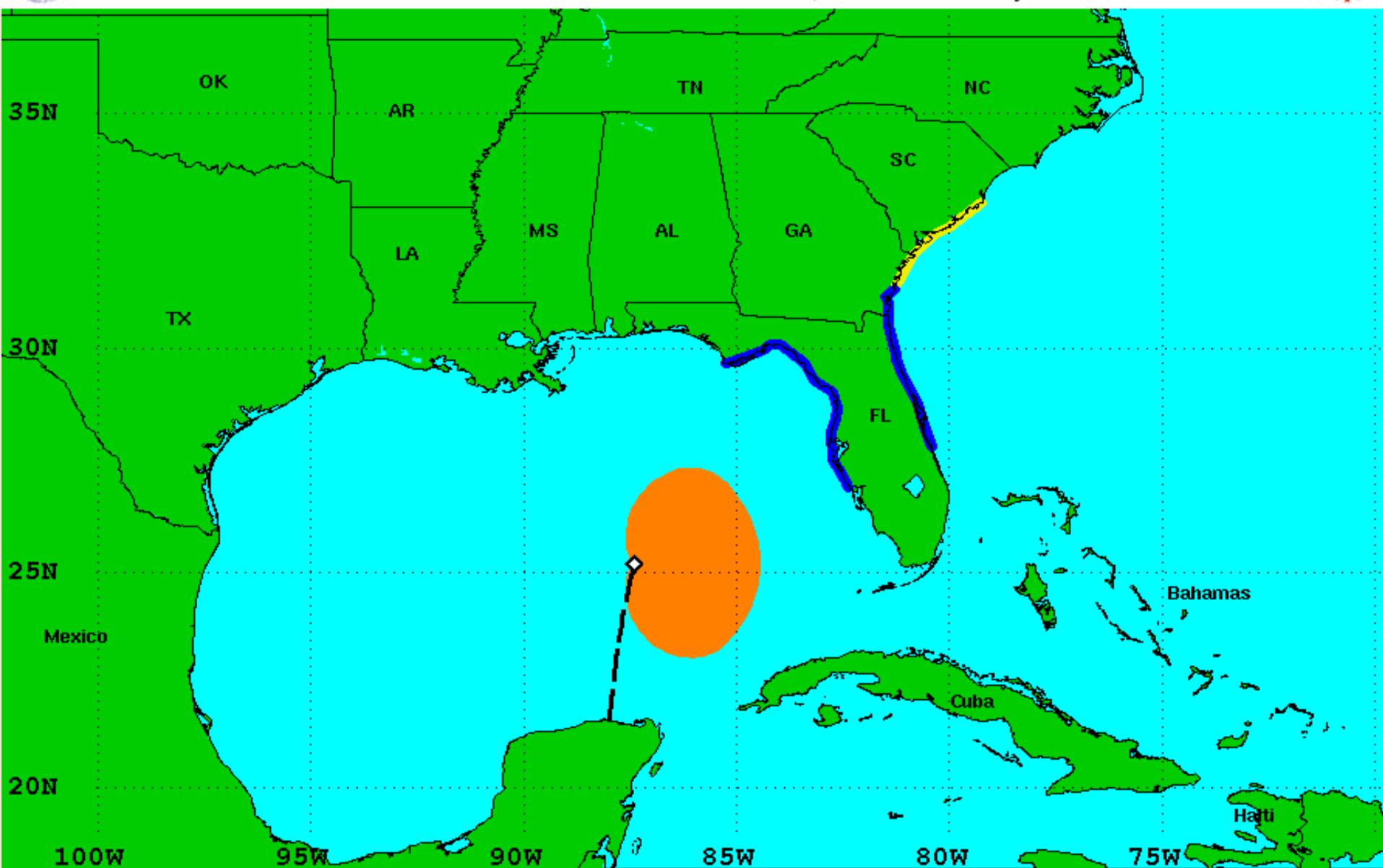
Steering Currents





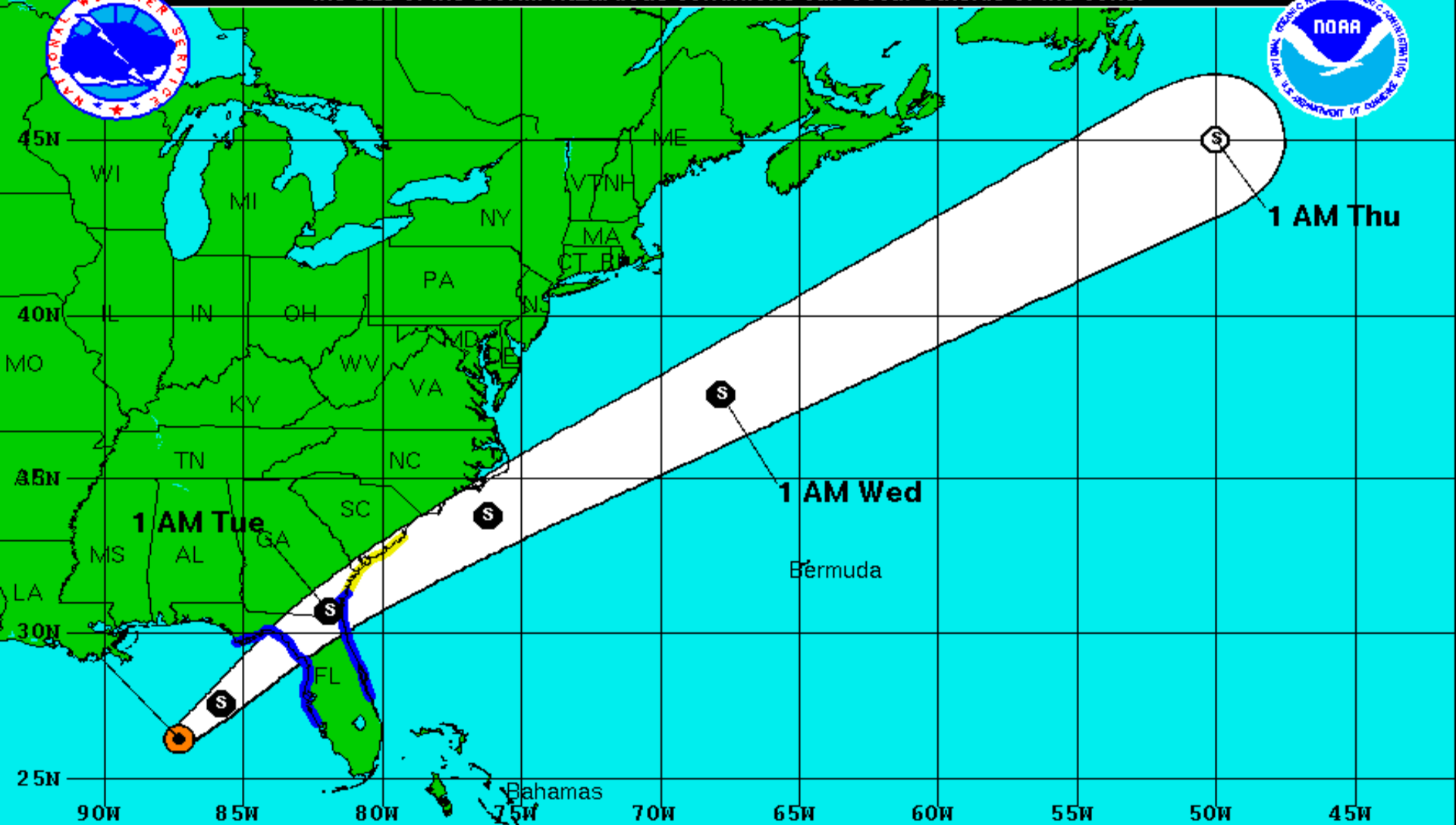
Surface Wind Field of Tropical Storm Colin

Sustained Winds as of 400 AM CDT Mon Jun 6, 2016 Advisory Number 4



Watches:	Warnings:	Sustained Winds:	Position:
Hurricane Watch	Hurricane Warning	Hurricane Force	Center as of 400 AM CDT
Tropical Storm Watch	Tropical Storm Warning	Tropical Storm Force	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
 7 AM CDT Intermediate Advisory 4A
 NWS National Hurricane Center

Current Information:
 Center Location 26.4 N 87.3 W
 Max Sustained Wind 50 mph
 Movement NNE at 14 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:



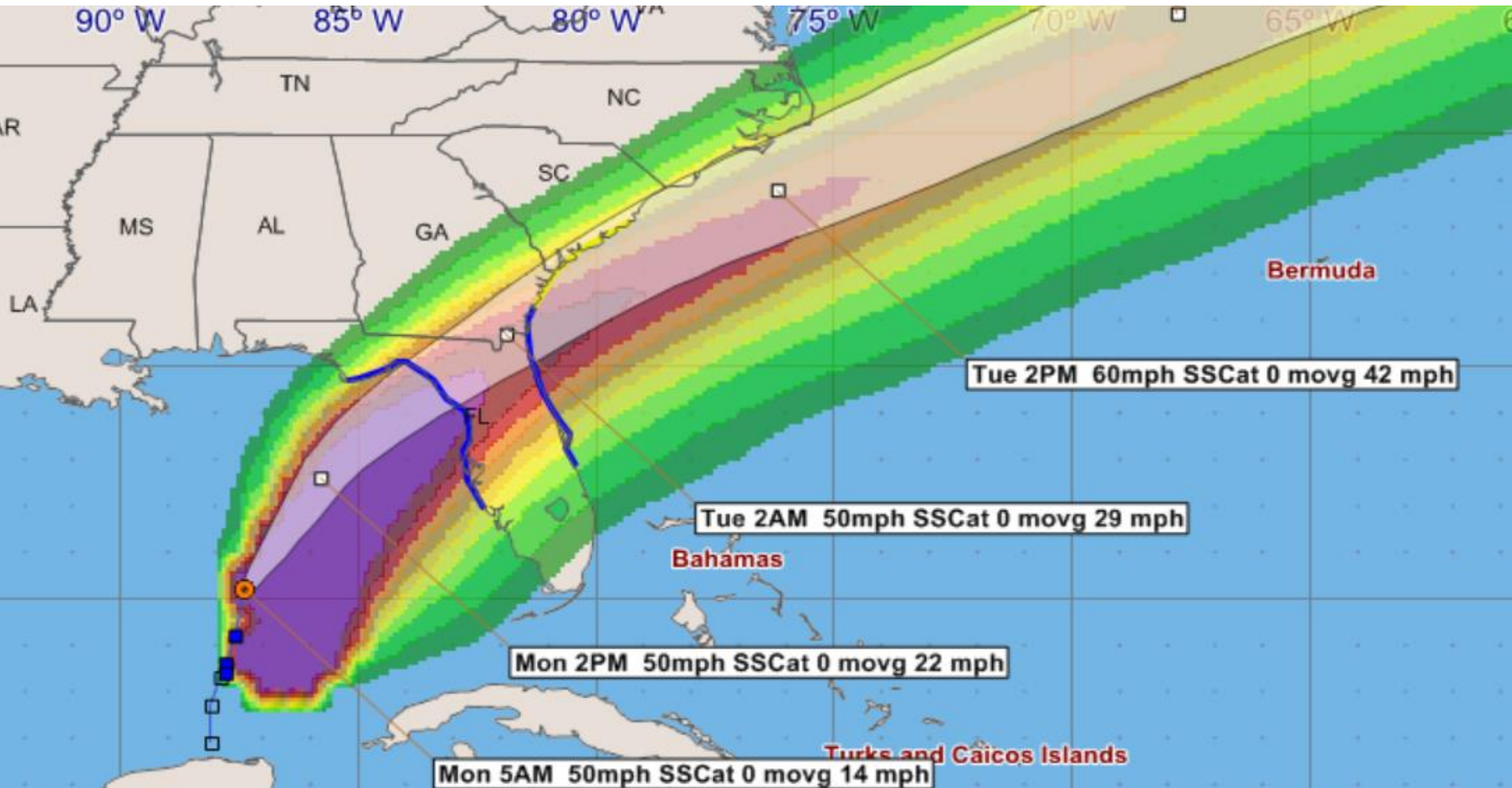
Day 1-3

Watches:

Hurricane Trop.Storm

Warnings:

Hurricane Trop.Storm



Tropical Storm Colin - Monday, June 6, 2016 5 AM EDT Advisory #4

Center Location: 25.2 N 87.4 W Maximum Sustained Winds: 50 mph Movement: 14 mph NNE

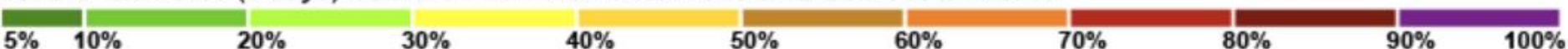
forecast positions Potential Track Area: day 1-3 day 4-5

Watches: hurricane tropical storm

Warnings: hurricane tropical storm

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

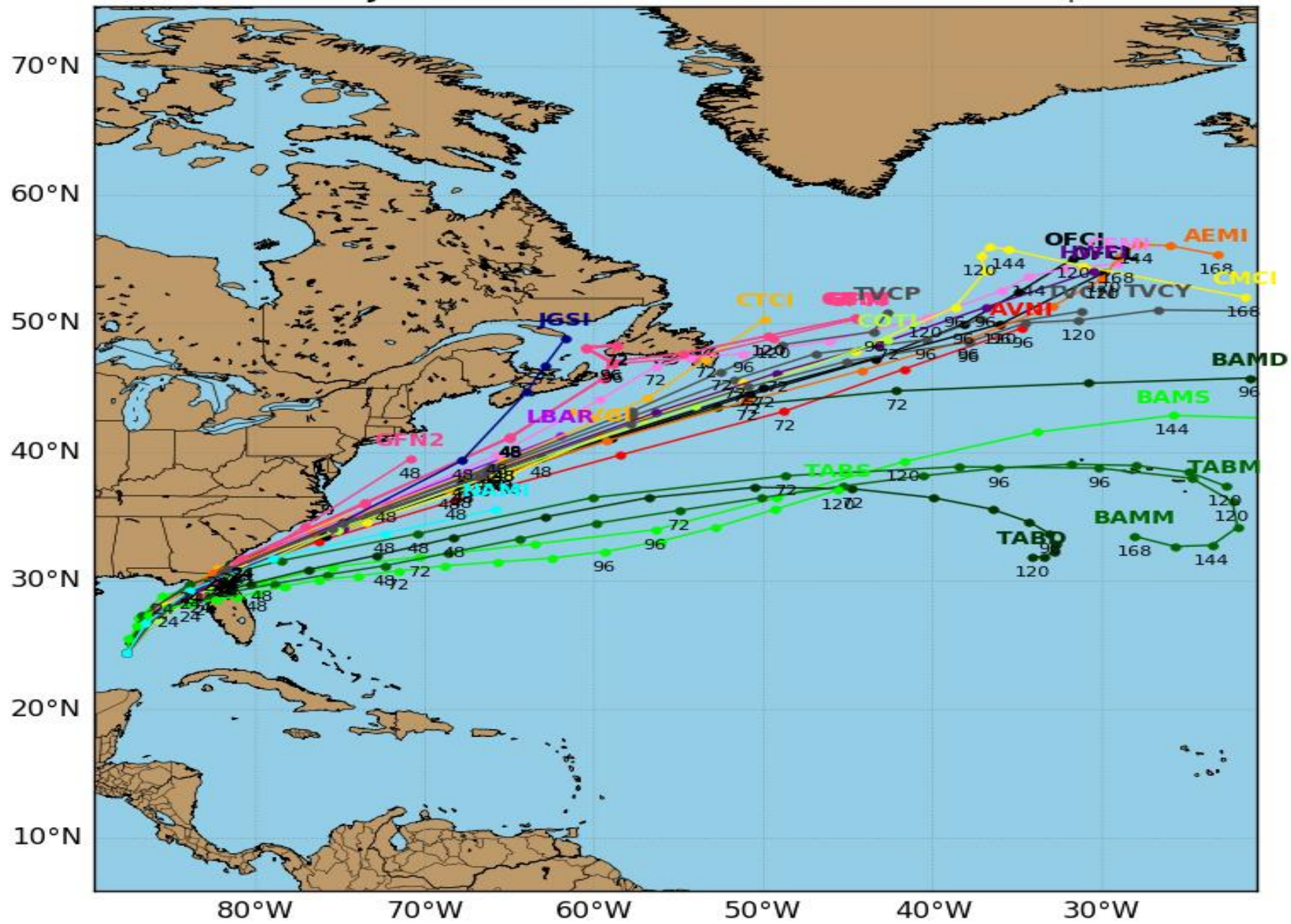
Probability of tropical storm force surface winds (1-minute average $\geq 34\text{kt}/39\text{mph}$) from all tropical cyclones for the 120 hours (5 days) from 2AM EDT Mon 6/6/2016 to 2AM EDT Sat 6/11/2016

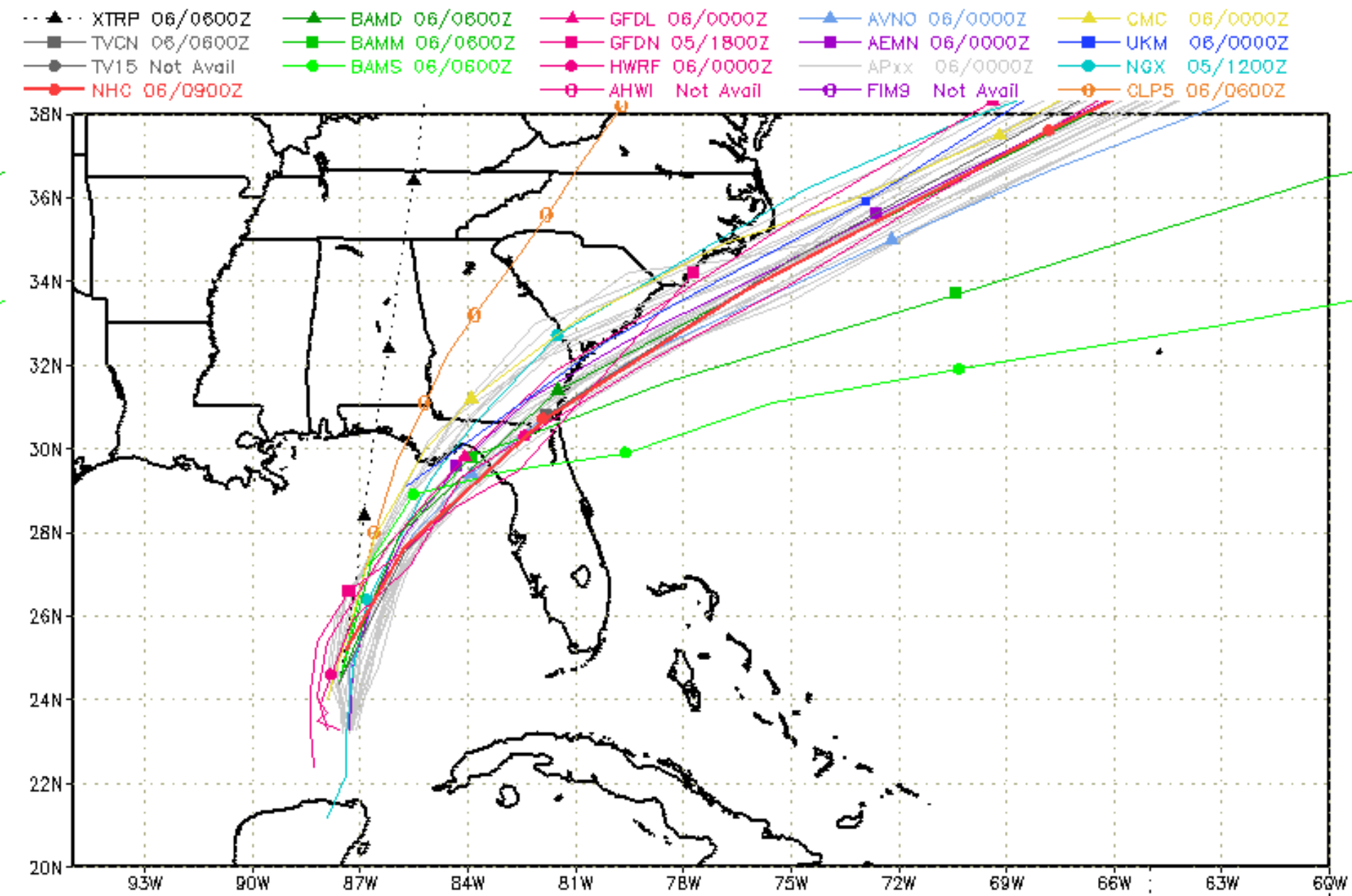


Tropical Storm COLIN Model Track Guidance

Initialized at 06z Jun 06 2016

Levi Cowan - tropicaltidbits.com





storm_03

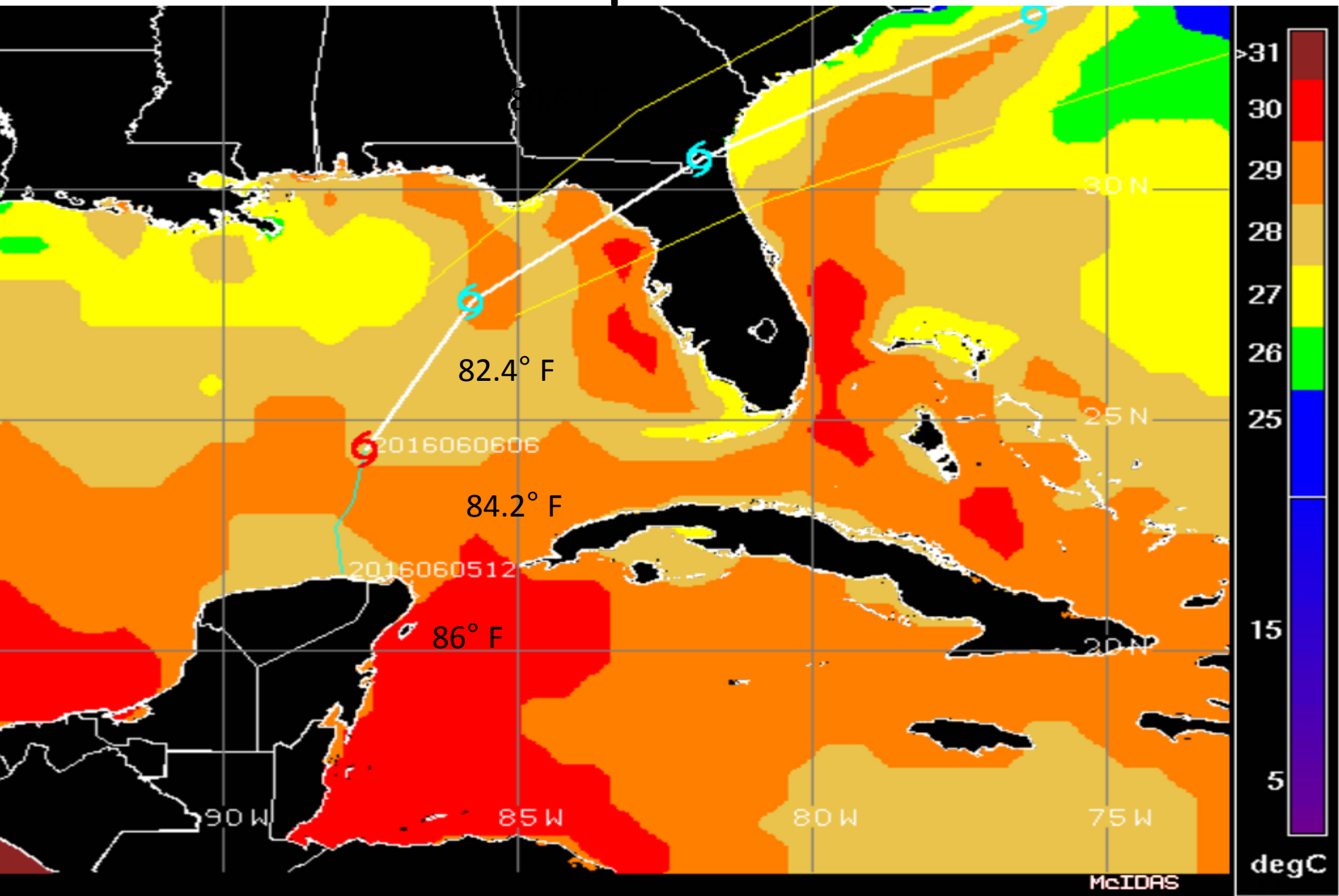
sfwmd.gov

weather@sfwmd.gov
06-Jun 06:51EDT

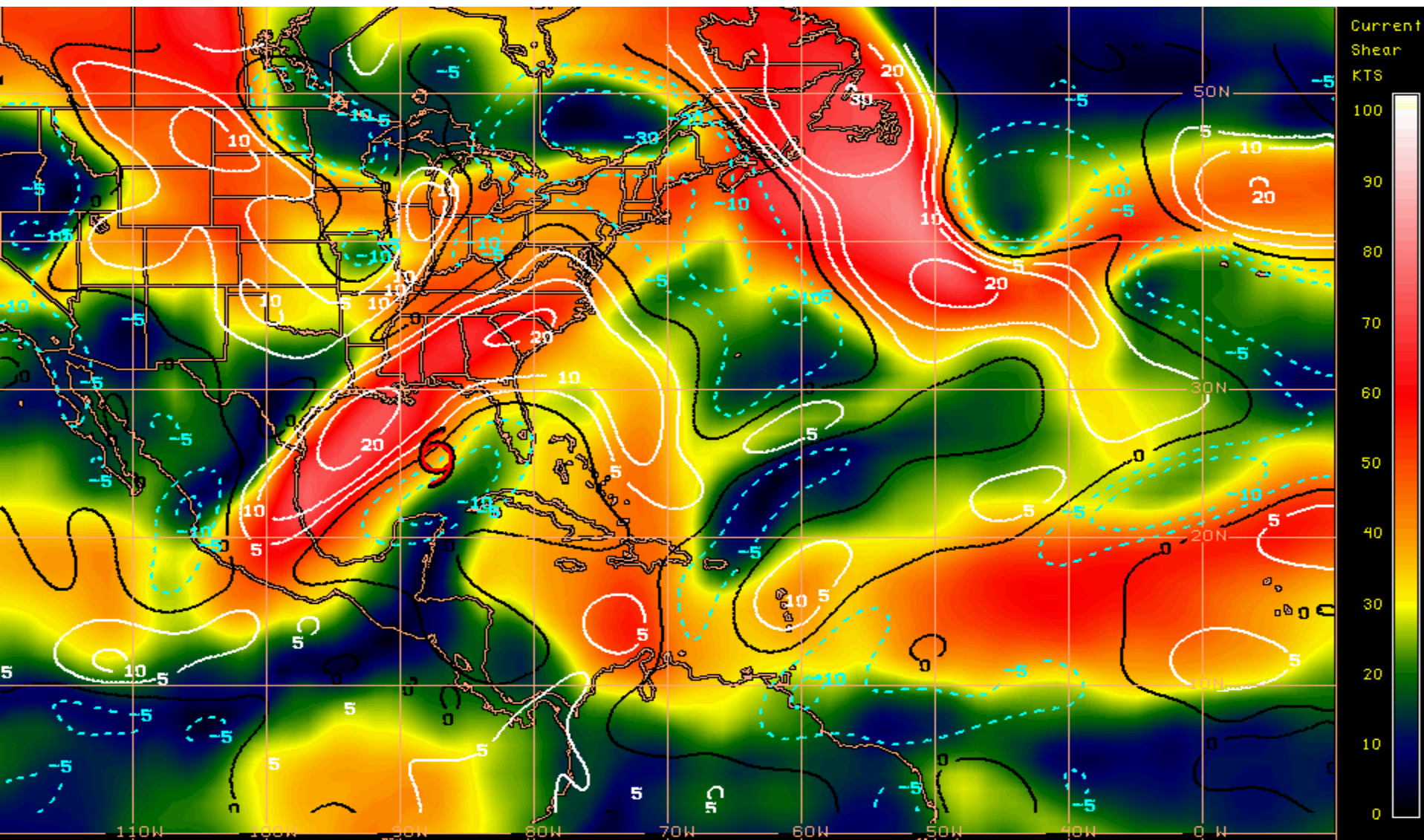
NHC Advisories and County Emergency Management Statements supersede this product. This graphic should complement, not replace, NHC discussions. If anything on this graphic causes confusion, ignore the entire product. For full info, see <http://my.sfwmd.gov/sfwmd/common/images/weather/plots.html>



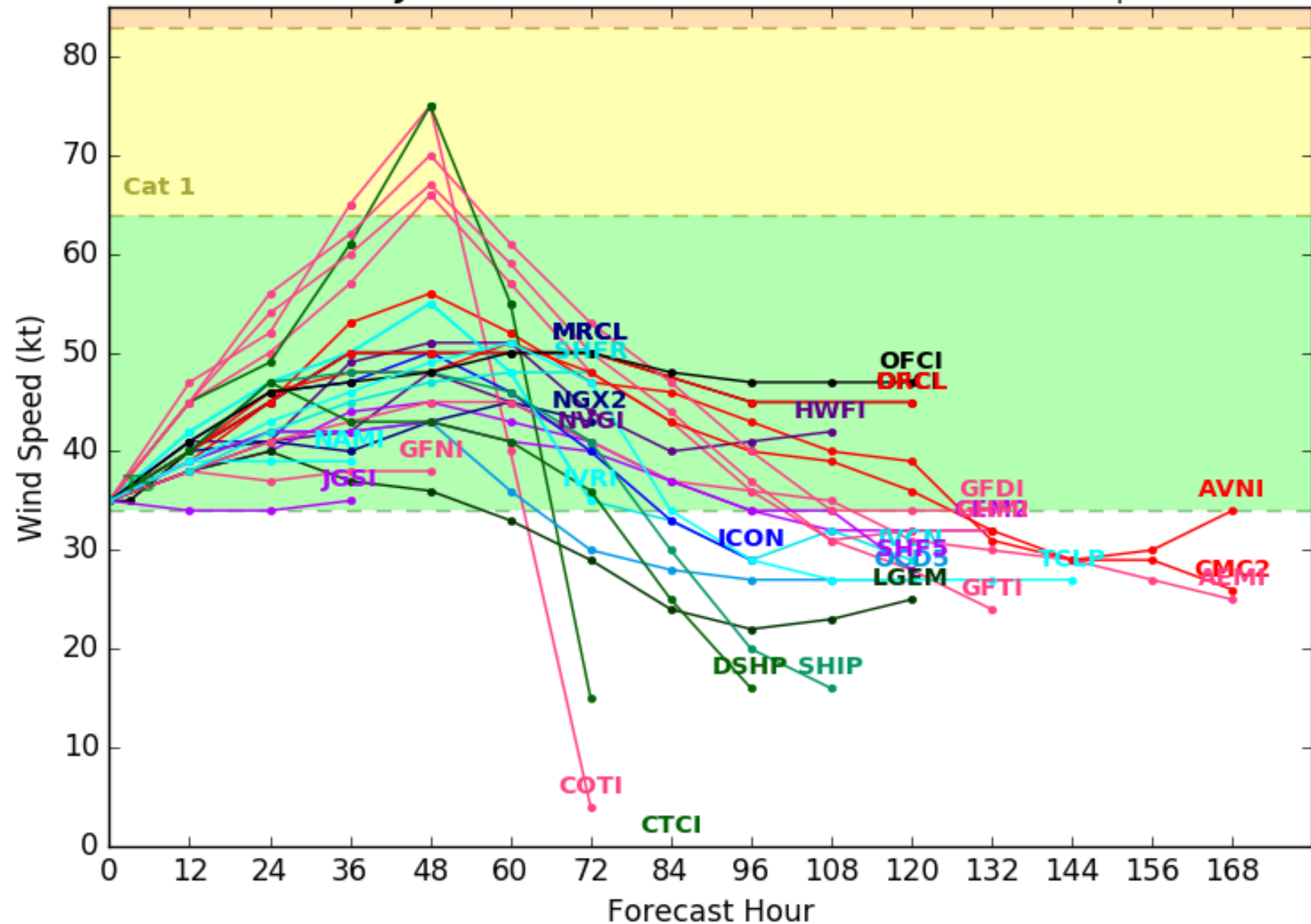
Sea Surface Temperatures Near Colin



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



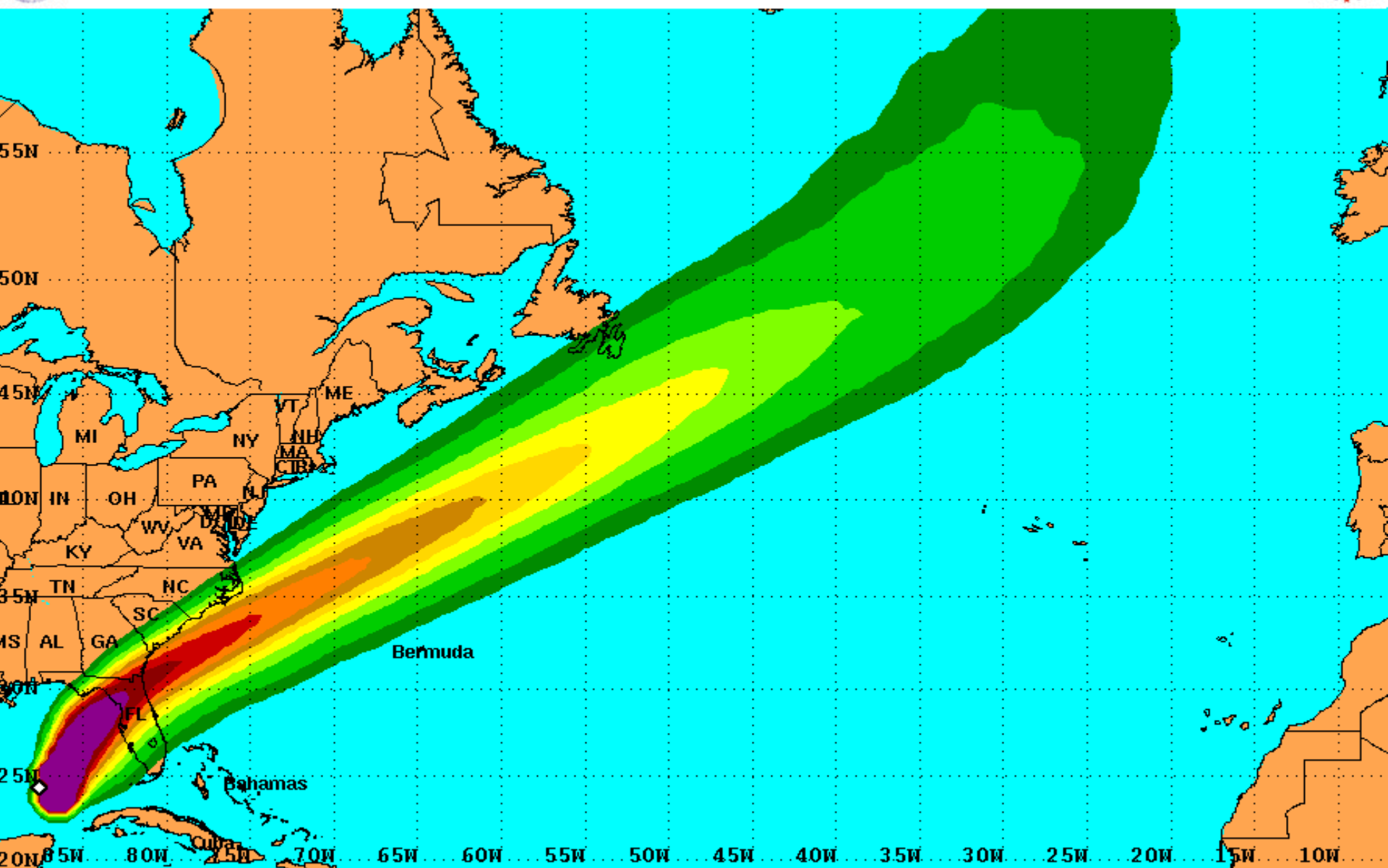
Shear Tendency (KTS) Over Past 24 Hours: Increasing ——— Decreasing - - - - -

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Tropical Storm Force Wind Speed Probabilities

For the 120 hours (5 days) from 1 AM CDT Mon Jun 6 to 1 AM CDT Sat Jun 11



Probability of tropical storm force surface winds (1-minute average ≥ 39 mph) from all tropical cyclones

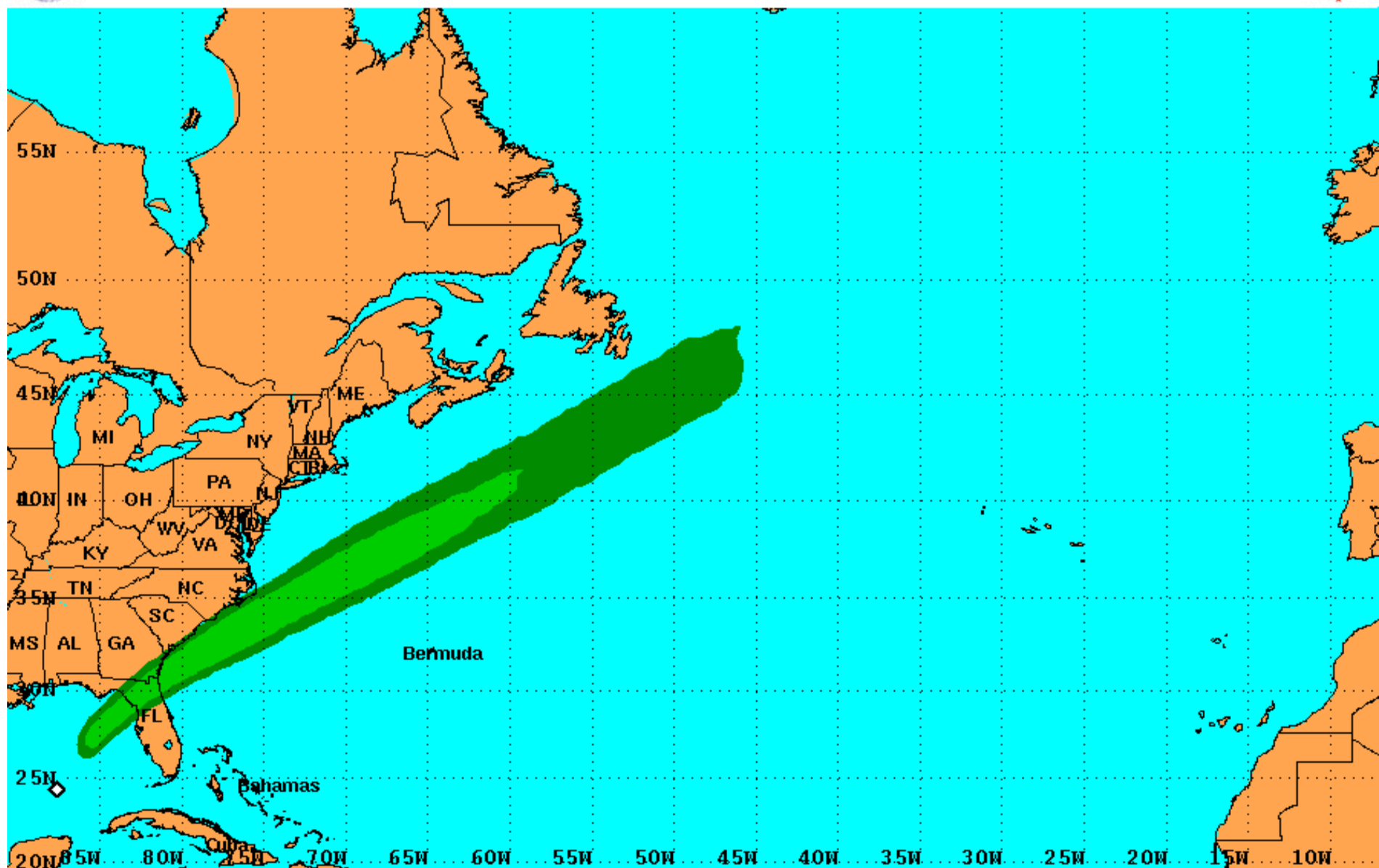
◇ indicates TROPICAL STORM COLIN center location at 1 AM CDT Mon Jun 6 2016 (Forecast/Advisory #4)





50-knot Wind Speed Probabilities

For the 120 hours (5 days) from 1 AM CDT Mon Jun 6 to 1 AM CDT Sat Jun 11

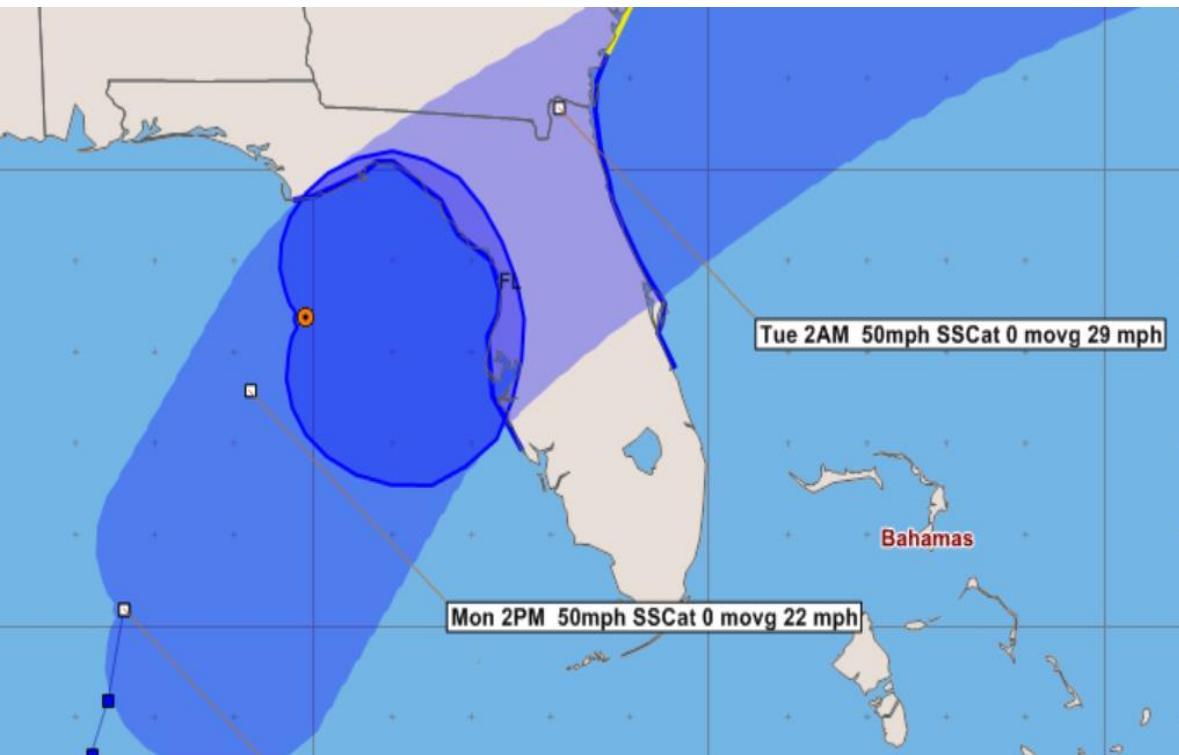


Probability of 1-minute average 50-knot (58 mph) or greater surface winds from all tropical cyclones

◇ indicates TROPICAL STORM COLIN center location at 1 AM CDT Mon Jun 6 2016 (Forecast/Advisory #4)



Hurrevac Forecast Wind Swath



Tropical Storm Colin - Monday, June 6, 2016 5 PM EDT (Fcst Hr 12) Advisory #4

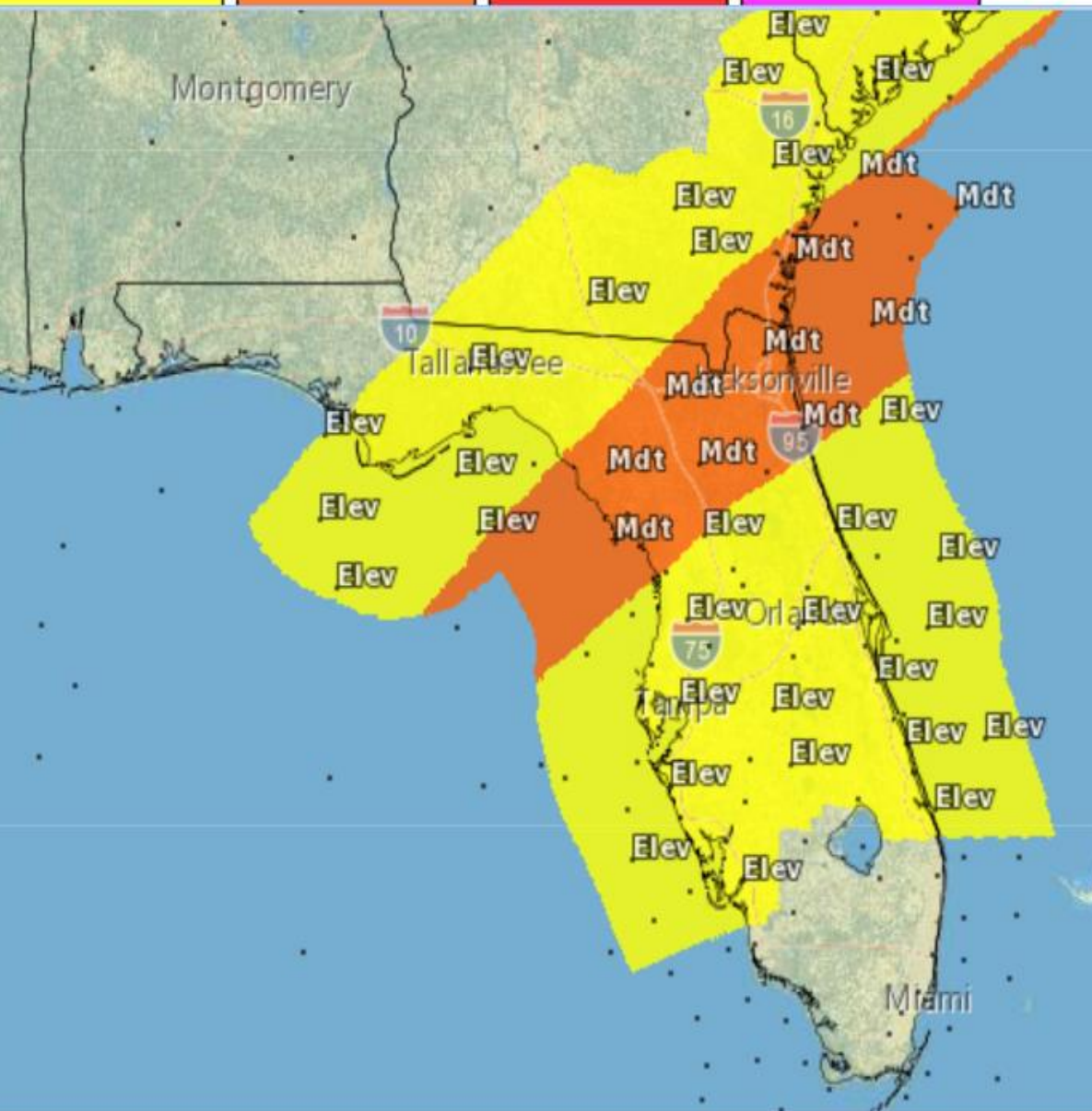
Center Location: 28.4 N 85.1 W Maximum Sustained Winds: 50 mph Movement: 25 mph NE

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

Watches: hurricane tropical storm Warnings: hurricane tropical storm

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

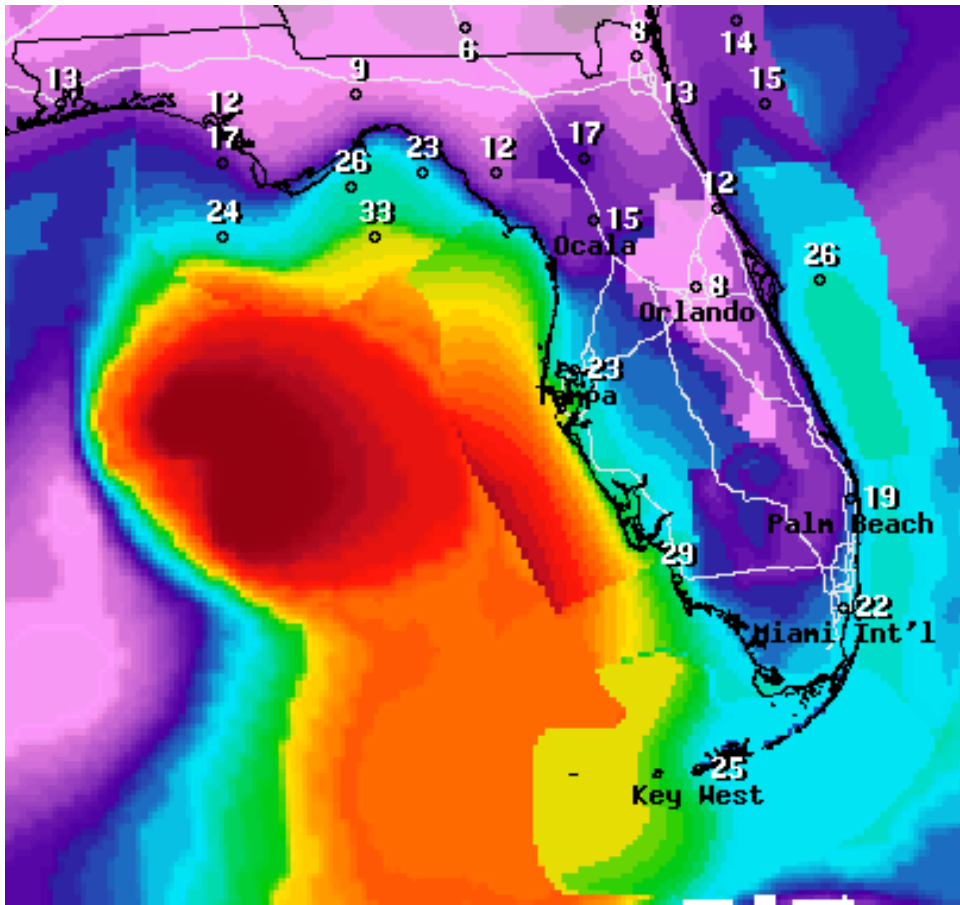
- Max wind to be within rain bands as they pass through county
- Barrier Islands and areas near coast: Sustained 45-50 mph with higher gusts
- Inland: 35-40 mph with gusts to 50 mph

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

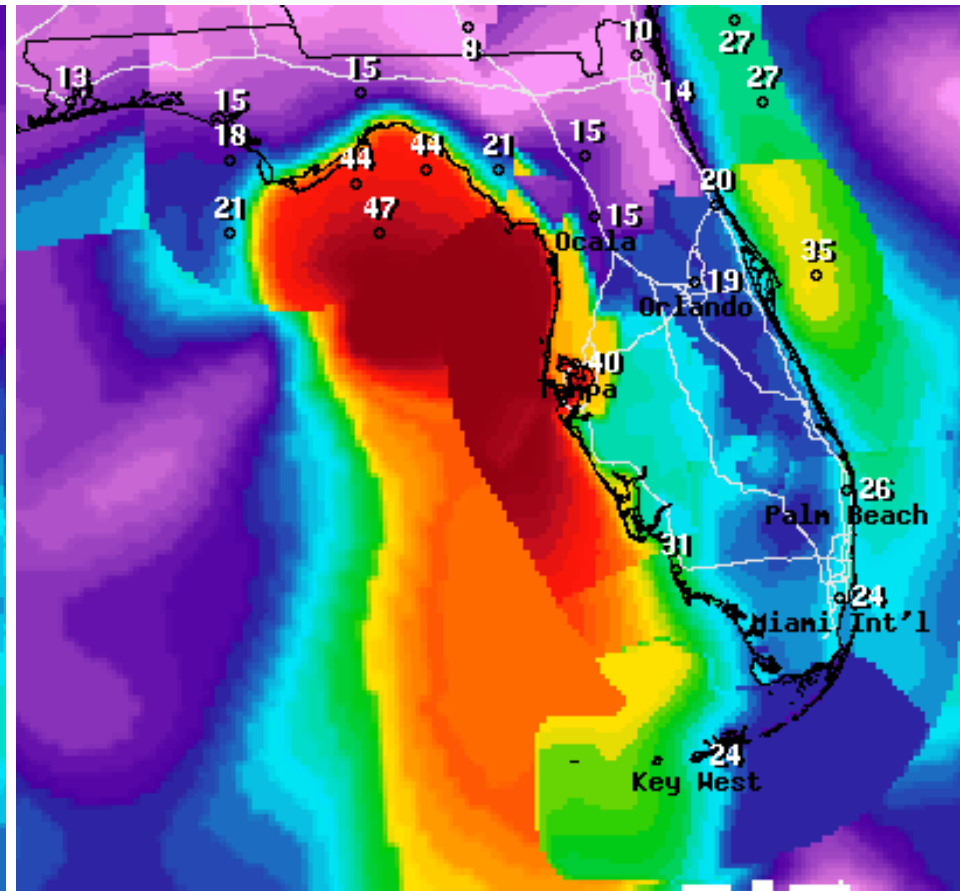
- Elevated - potential for winds equal to or greater than 39 mph and less than 58 mph.
- Moderate – potential for winds equal to or greater than 58 mph and less than 74 mph.

Hurricane Wind Threat
Through: Wed, Jun 8 2016, 8 PM EDT
Issued: Jun 06 at 6 AM EDT

Forecast Wind Gusts (knots) – Monday

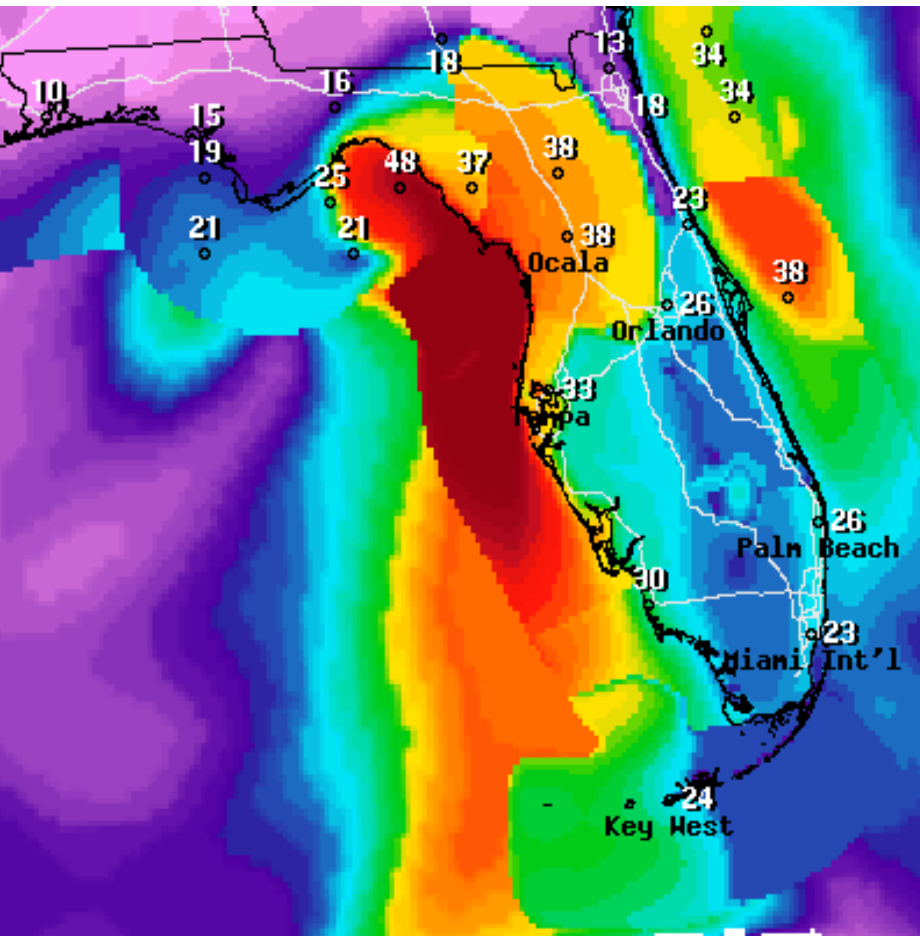


Wind Gust(Kts) Mon Jun 06 2016 11AM EDT

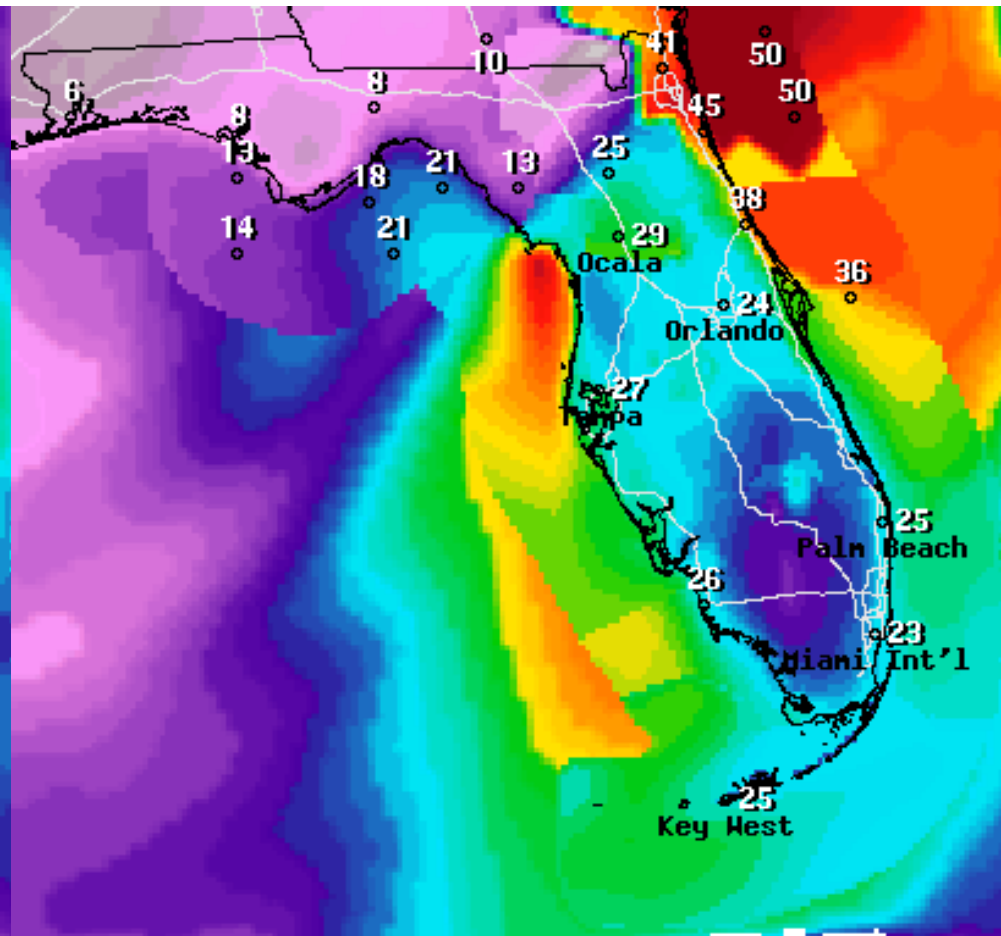


Wind Gust(Kts) Mon Jun 06 2016 5PM EDT

Forecast Wind Gusts (knots) – Tonight

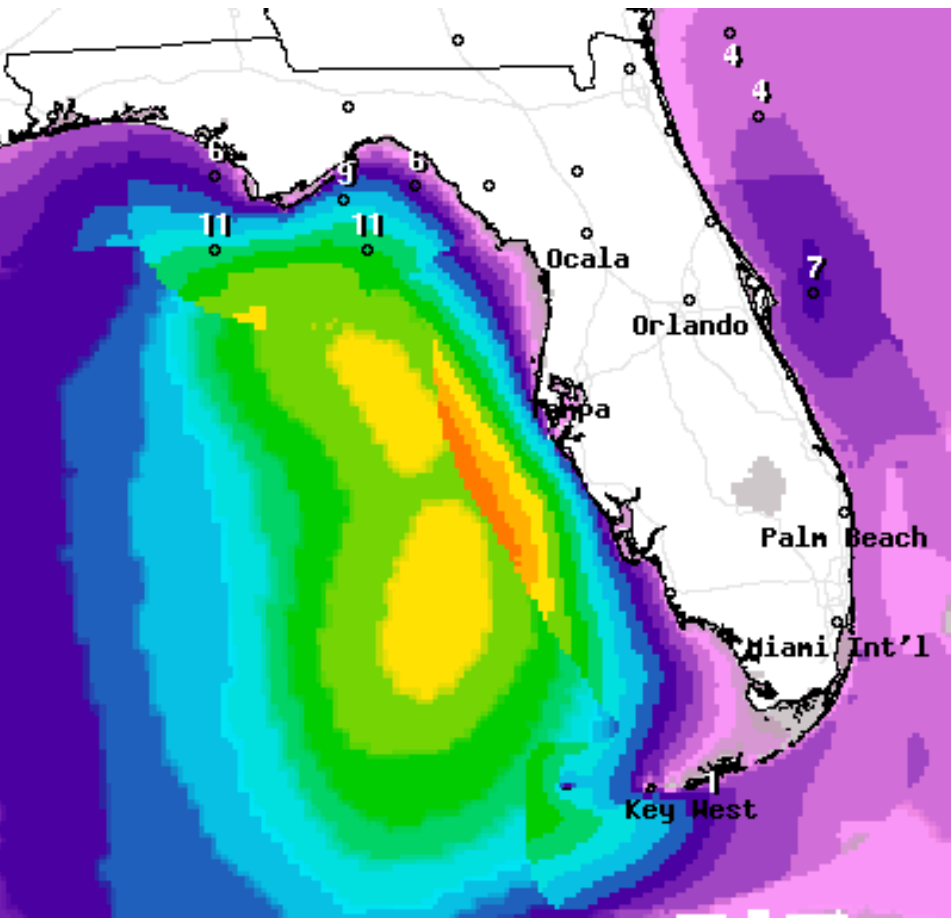


Wind Gust(Kts) Mon Jun 06 2016 8PM EDT

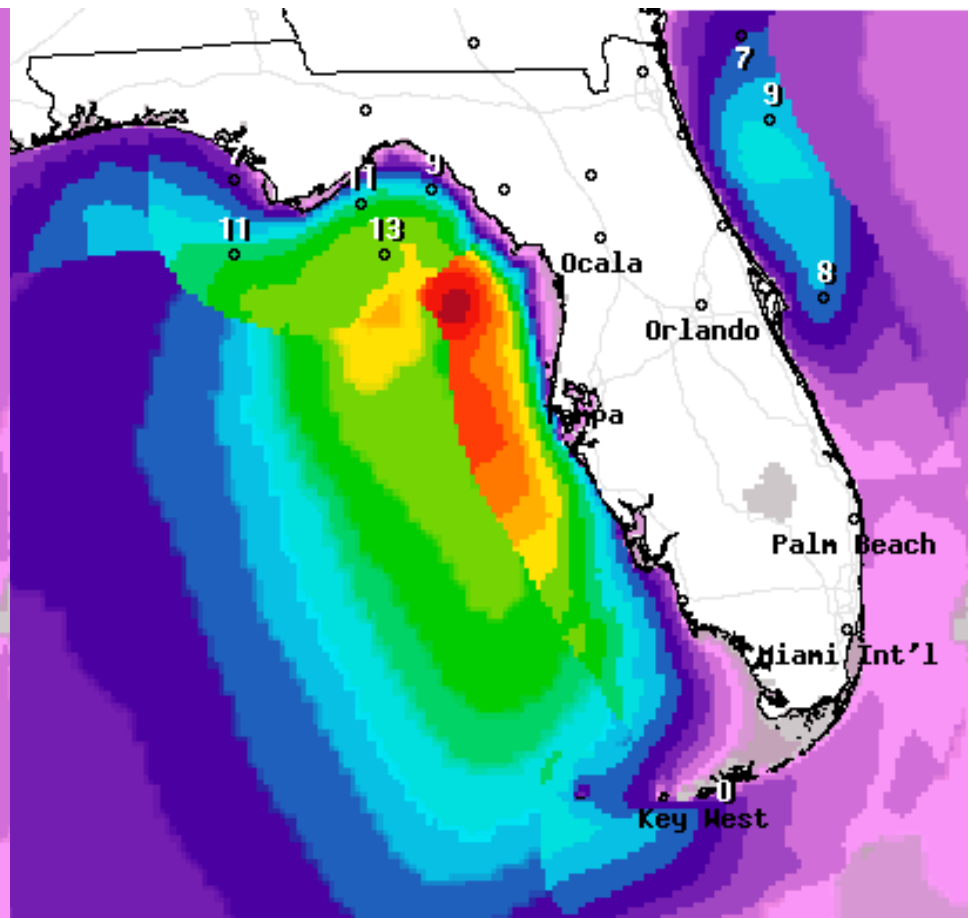


Wind Gust(Kts) Tue Jun 07 2016 2AM EDT

Forecast Wave Heights (feet) – Monday

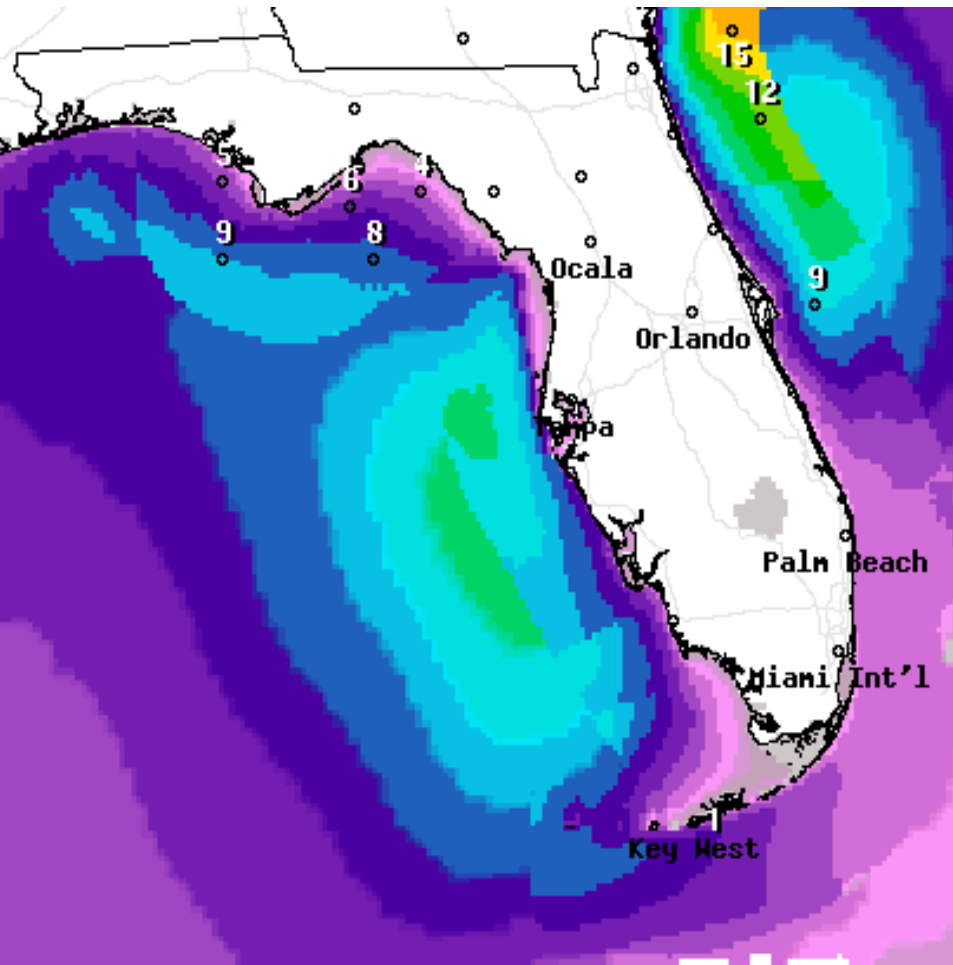


Wave Height(ft) Ending Mon Jun 06 2016 2PM EDT

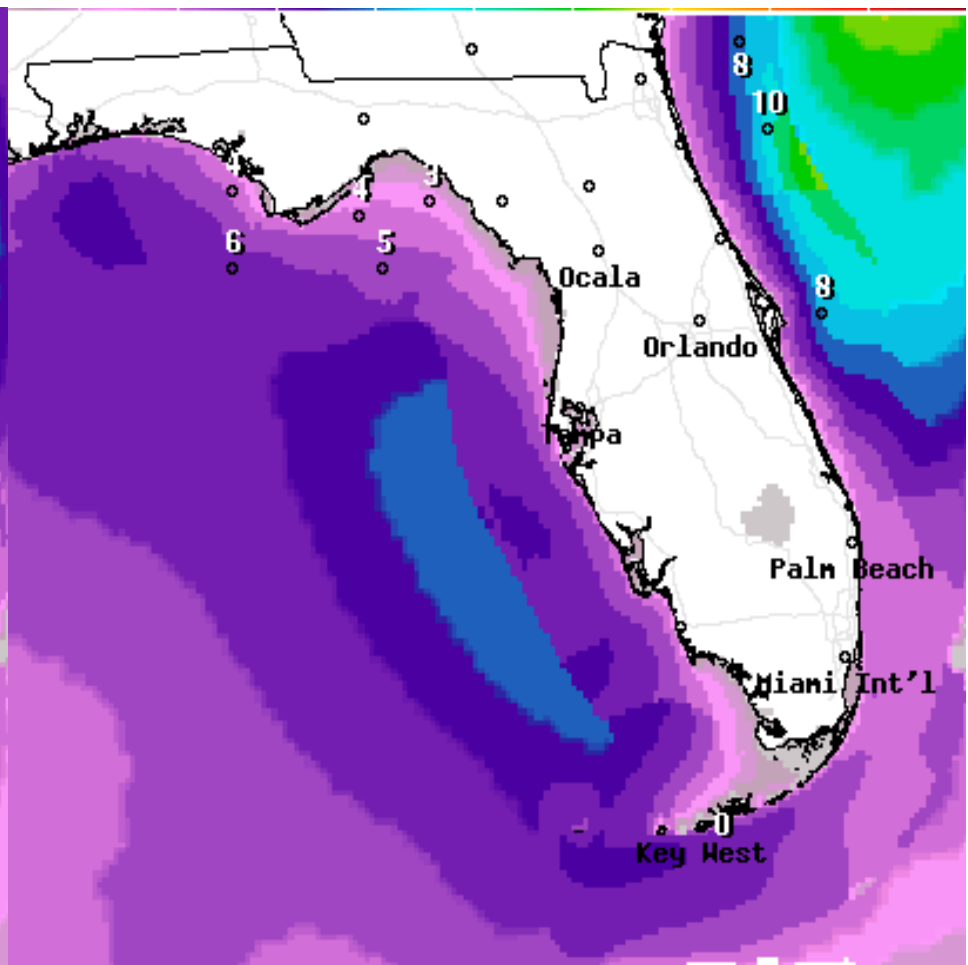


Wave Height(ft) Ending Mon Jun 06 2016 8PM EDT

Forecast Wave Heights (feet) – Tuesday



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



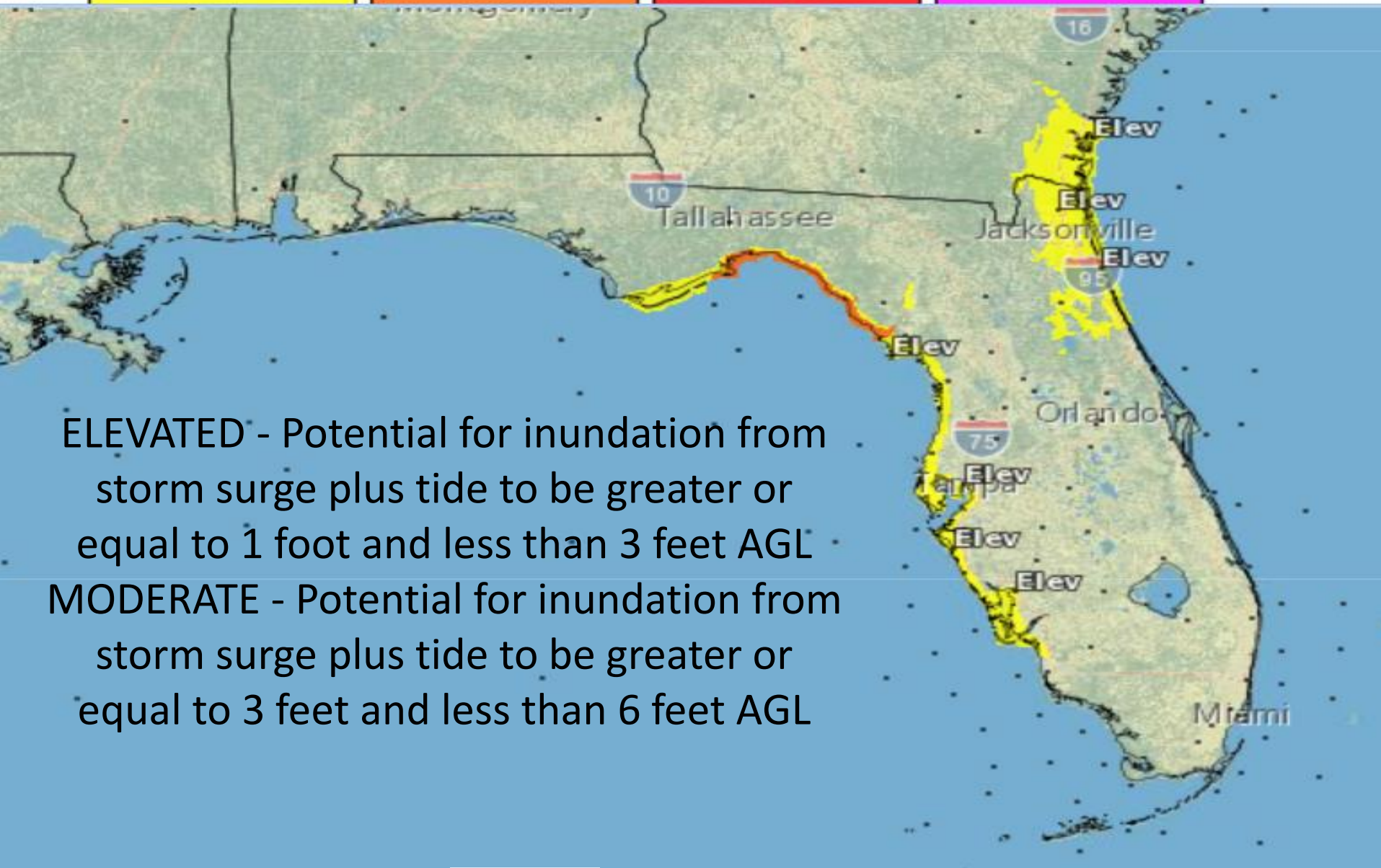
_ Wave Height(ft) Ending Tue Jun 07 2016 8AM EDT

Elevated

Moderate

High

Extreme



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

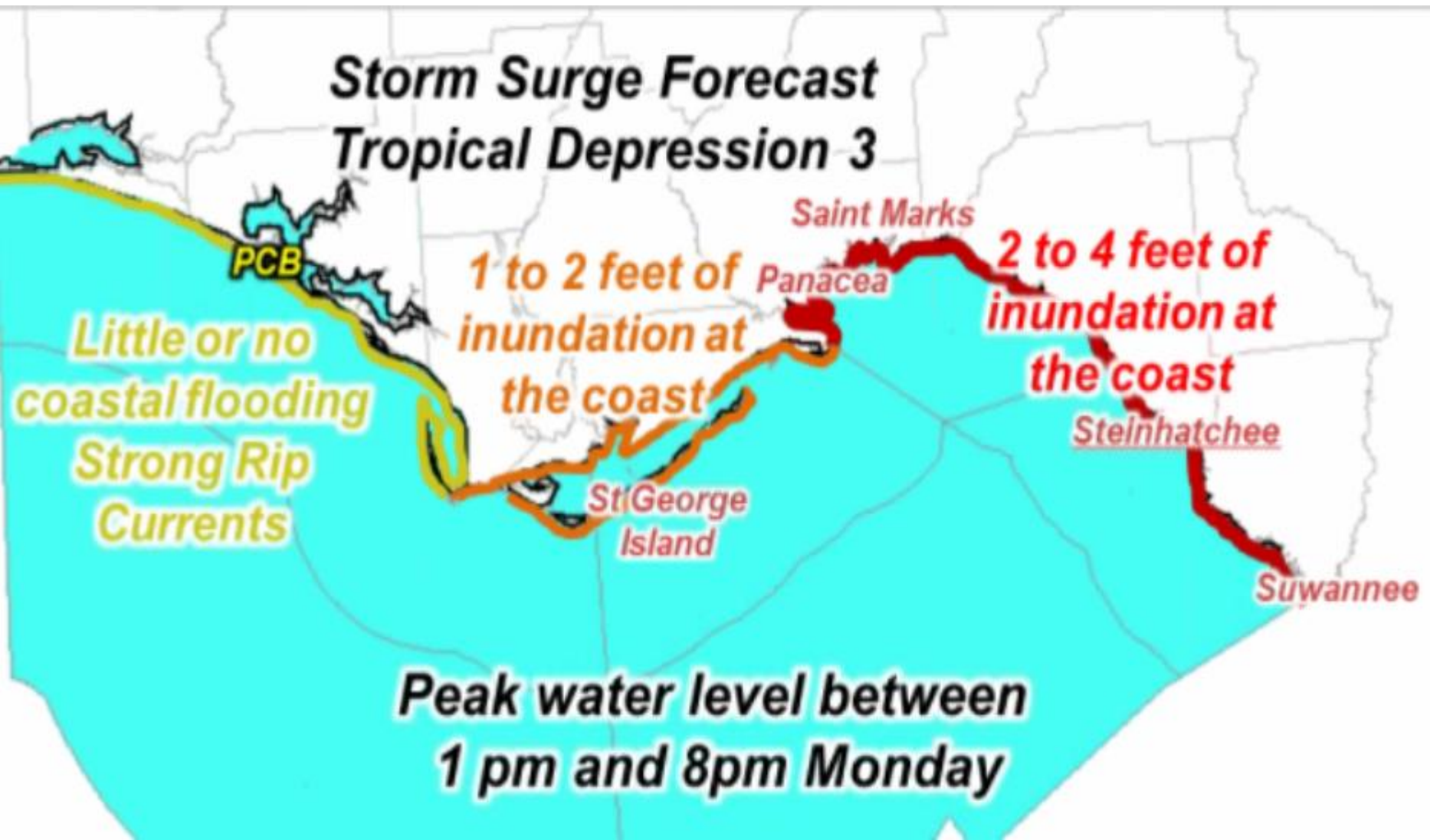
MODERATE - Potential for inundation from storm surge plus tide to be greater or equal to 3 feet and less than 6 feet AGL

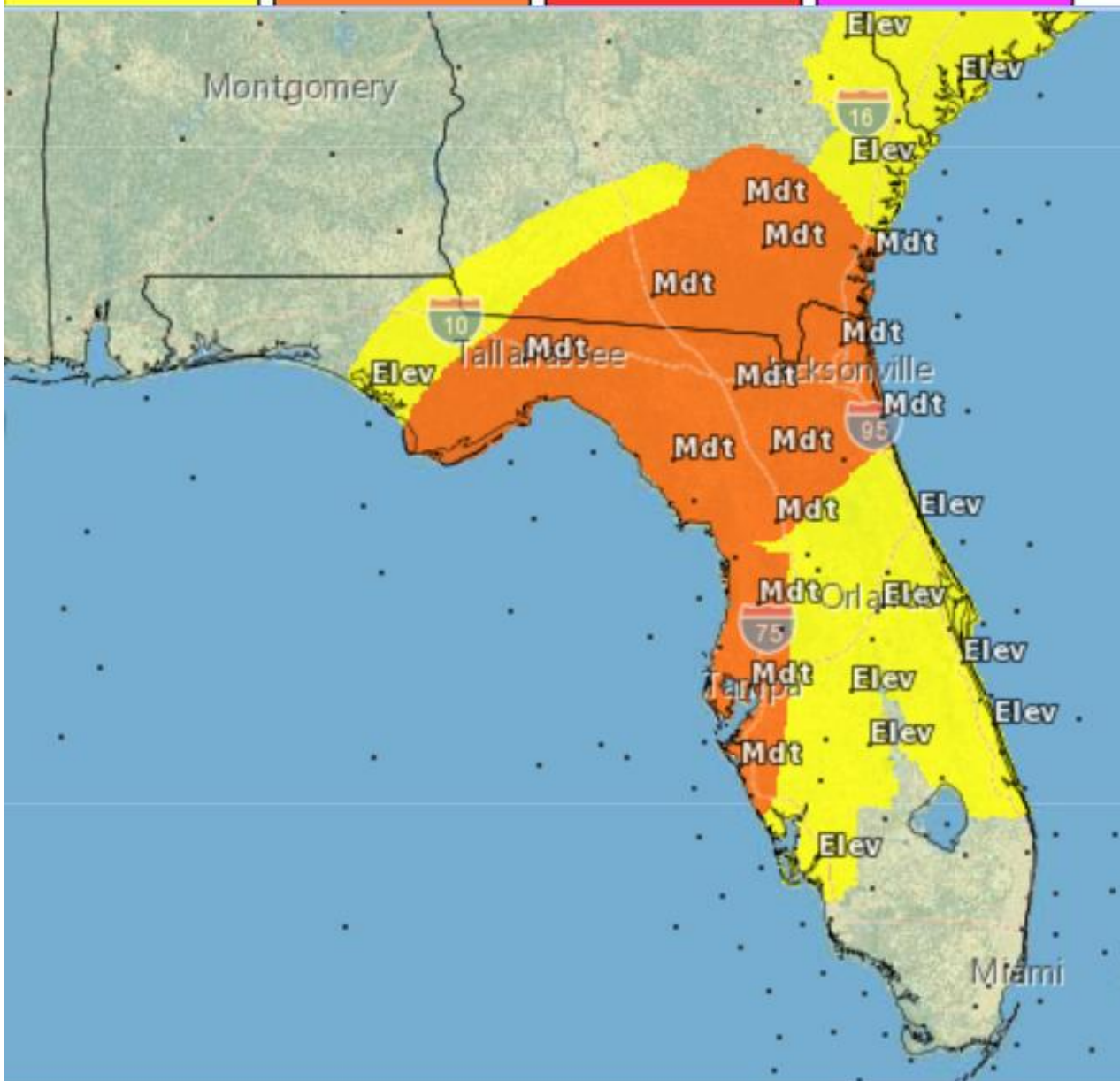
Storm Surge Threat

Through: Wed, Jun 8 2016, 8 PM EDT

Issued: Jun 06 at 6 AM EDT

National Weather Service Tallahassee

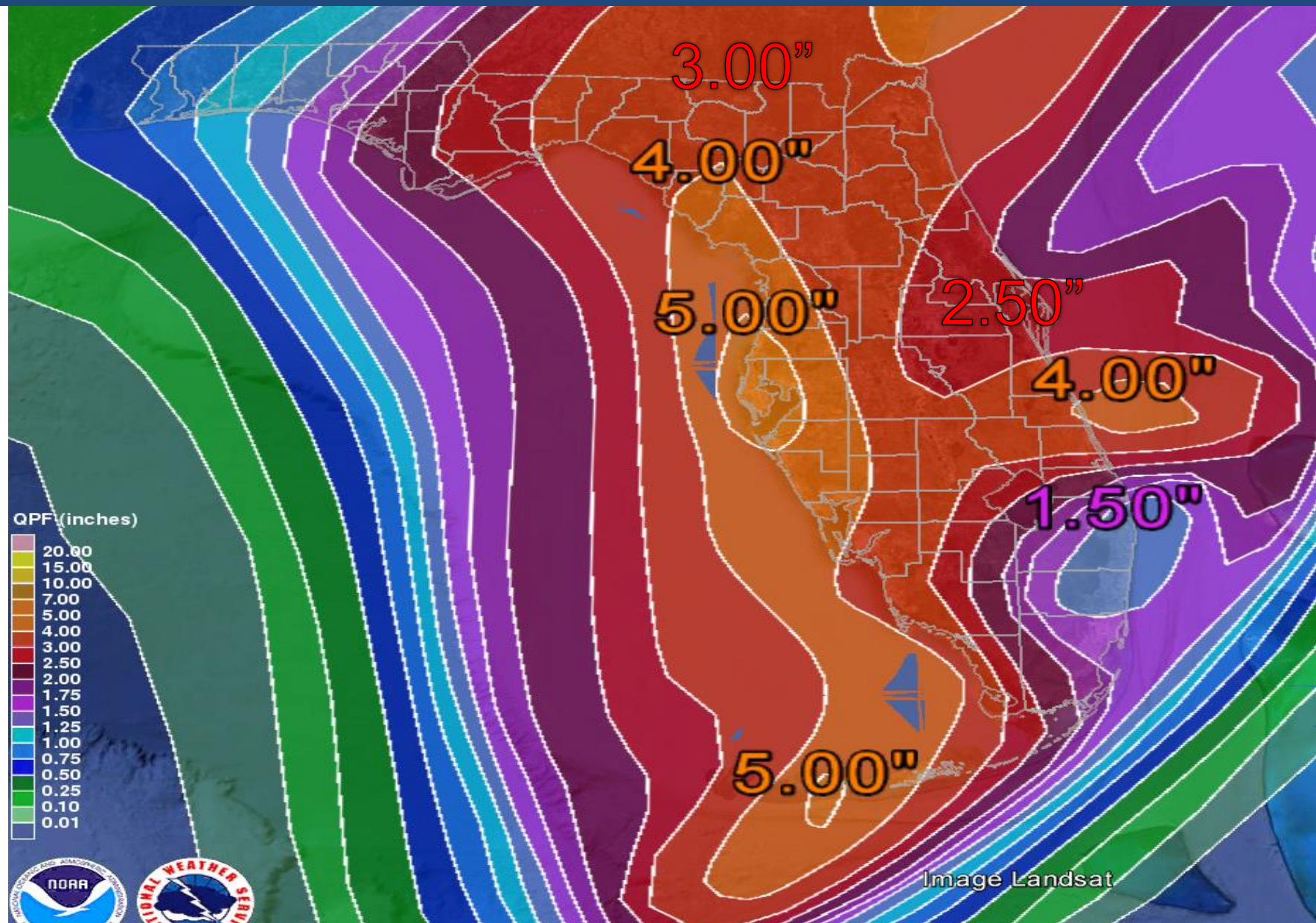


Elevated**Moderate****High****Extreme**

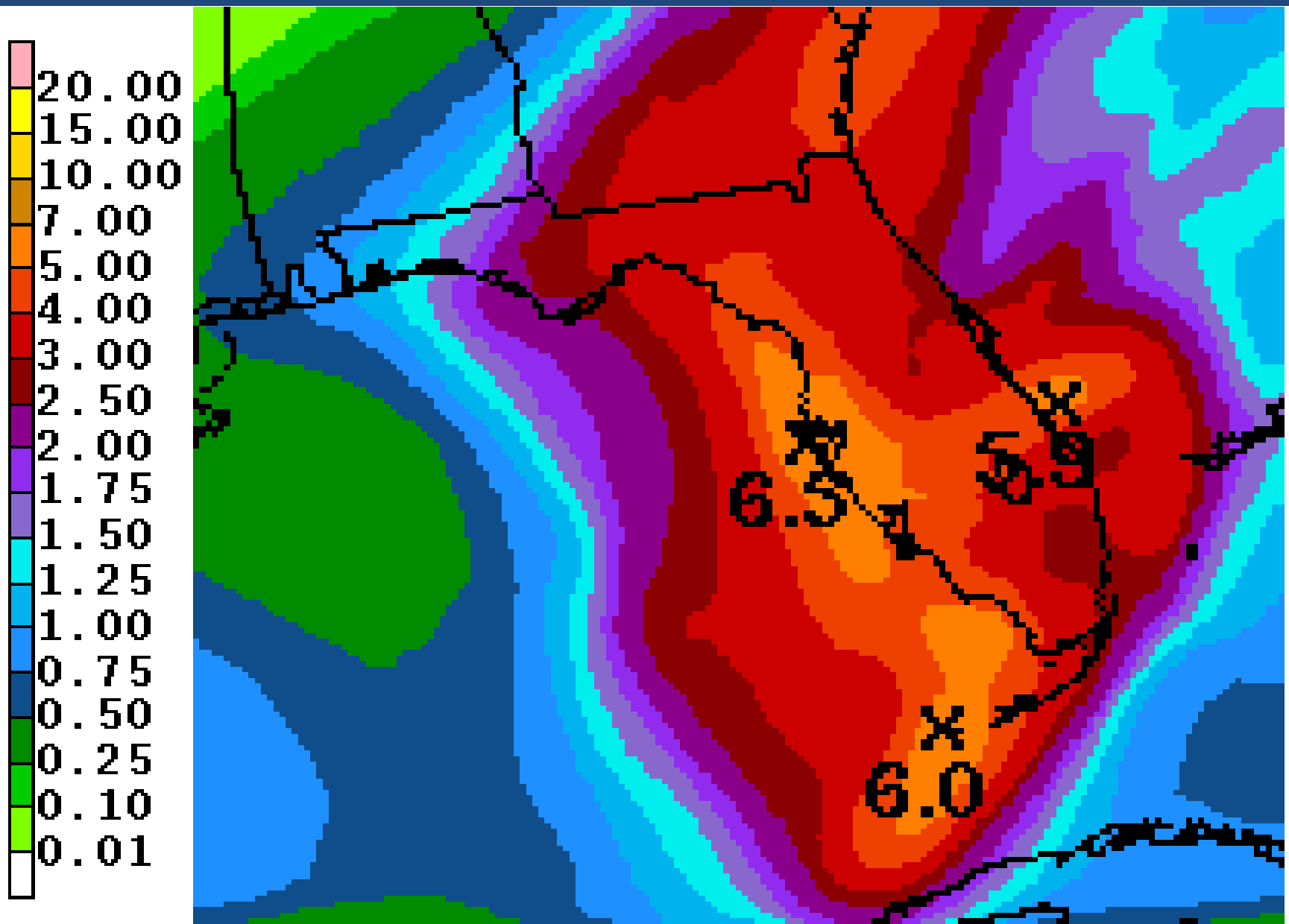
- Elevated - Potential for highest rain amounts near values conducive to flash flooding capable of resulting in limited damage from fresh water flooding.
- Moderate - Potential for highest rain amounts to notably exceed values conducive to flash flooding capable of producing significant damage from fresh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

Hurricane Flooding Rain Threat
Through: Wed, Jun 8 2016, 8 PM EDT
Issued: Jun 06 at 6 AM EDT

Forecast Total Rainfall Accumulations for next 3 Days

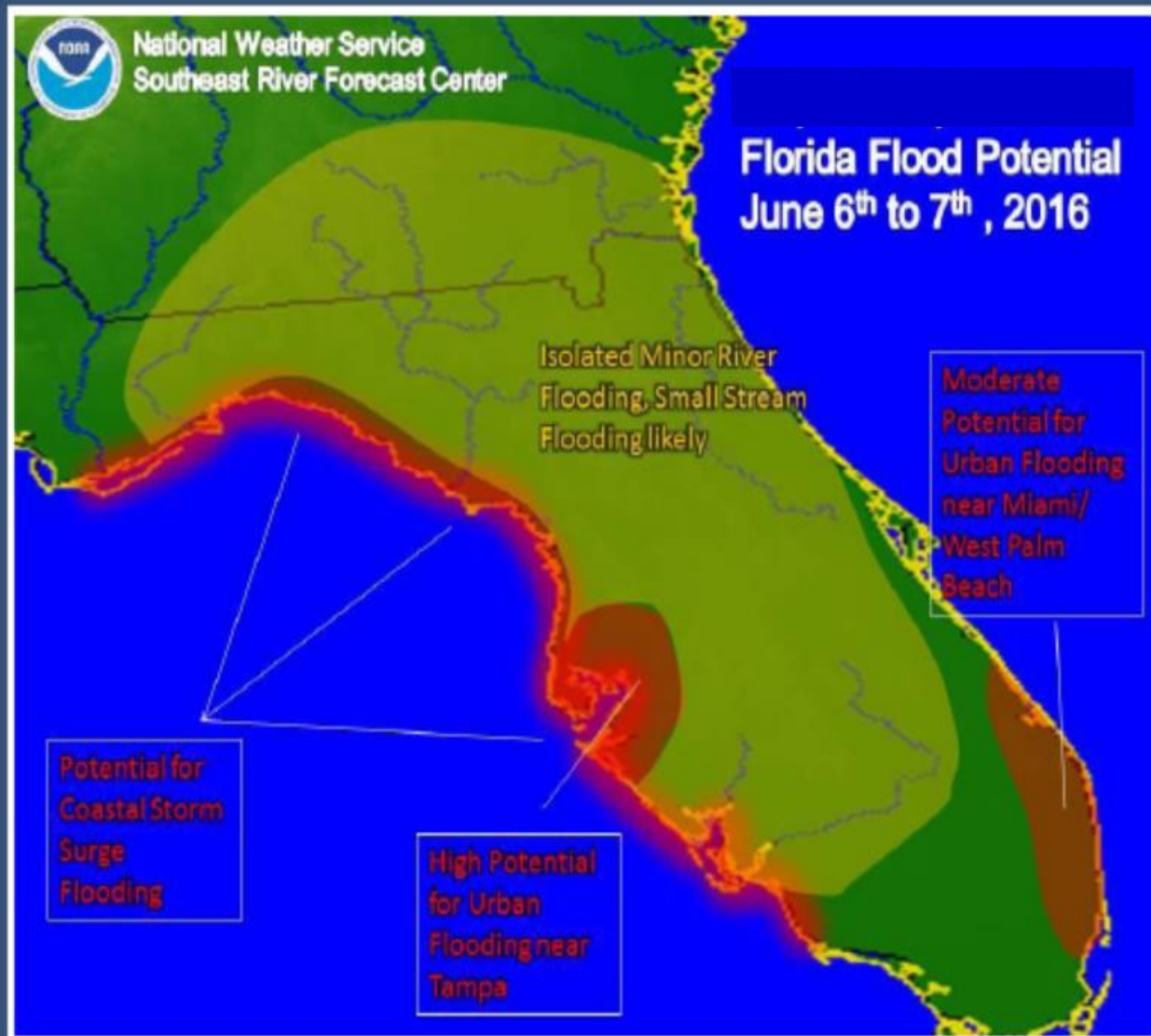


Forecast Total Rainfall Accumulations for next 7 Days





Florida Flood Threat



- Isolated Minor River Flooding will be possible but is not forecast at this time based on latest rainfall forecasts.
- Widespread river flooding not expected.
- Potential for Coastal Storm Surge Flooding on the west coast.
- Urban Flooding is likely within the Tampa area and possible in the Miami/West Palm Beach area based on the current track.

Flood Watch until midnight Monday Night



THE NATIONAL WEATHER SERVICE IN TAMPA BAY AREA - RUSKIN FL HAS ISSUED A

- FLOOD WATCH FOR...
- HARDEE, POLK, SUMTER, LEVY, DESOTO, HIGHLANDS, CHARLOTTE, LEE, CITRUS, HERNANDO, HILLSBOROUGH, MANATEE, PASCO, SARASOTA AND PINELLAS.
- FROM LATE TONIGHT THROUGH MONDAY NIGHT
- SHOWERS AND SQUALLS WITH ISOLATED EMBEDDED THUNDERSTORMS WILL MOVE INTO WEST CENTRAL AND SOUTHWEST FLORIDA LATER TONIGHT THROUGH MONDAY.
- VERY HEAVY RAINFALL WILL BE POSSIBLE WITH RAINFALL AMOUNTS OF 3 TO 6 INCHES LIKELY WITH UP TO 8 INCHES POSSIBLE ALONG THE COAST FROM SARASOTA NORTH TO CEDAR KEY.

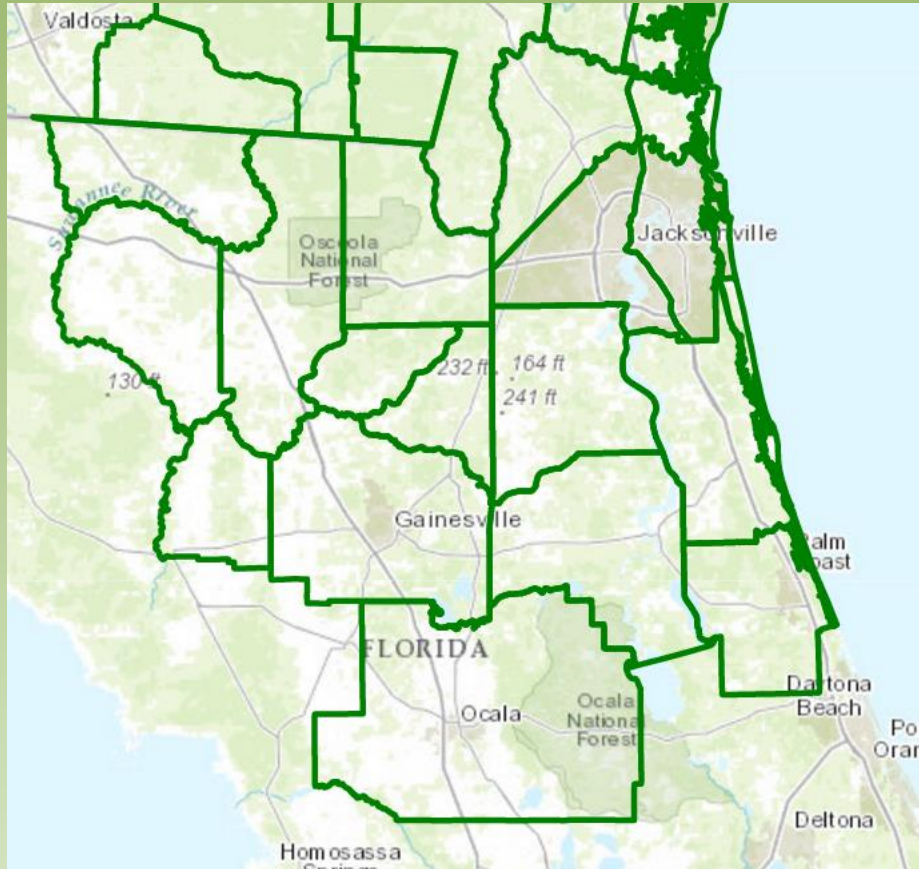
Flood Watch until 2am Tuesday



THE NATIONAL WEATHER SERVICE IN TALLAHASSEE HAS ISSUED A

- FLOOD WATCH
- FROM 6 AM EDT /5 AM CDT/ MONDAY THROUGH LATE MONDAY NIGHT.
- WIDESPREAD AVERAGE RAINFALL AMOUNTS OF 2 TO 4 INCHES ARE EXPECTED WITH ISOLATED AMOUNTS OF 8 INCHES POSSIBLE.
- FLOODING IS MOST LIKELY TO DEVELOP ACROSS URBAN AREAS AND AREAS OF POOR DRAINAGE.

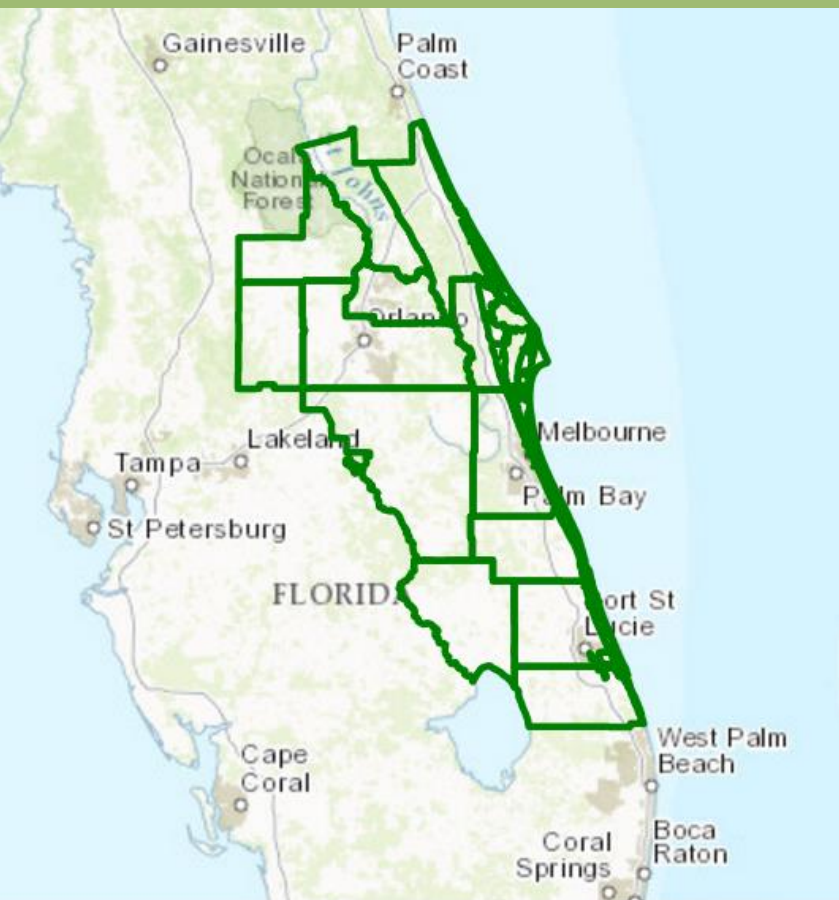
Flood Watch until 5am Tuesday



THE NATIONAL WEATHER SERVICE IN JACKSONVILLE HAS ISSUED A

- FLOOD WATCH FOR
- FROM 8 AM EDT MONDAY THROUGH LATE MONDAY NIGHT
- VERY HEAVY RAINFALL WILL BE POSSIBLE IN A 9 TO 12 HOUR TIMEFRAME WITH RAINFALL AMOUNTS OF 2 TO 5 INCHES LIKELY AND LOCALIZED AMOUNTS UP TO 8 INCHES.
- THE HEAVY RAINFALL WILL CREATE FLOODING OF STREETS...URBAN AREAS AND LOW-LYING FLOOD PRONE AREAS.

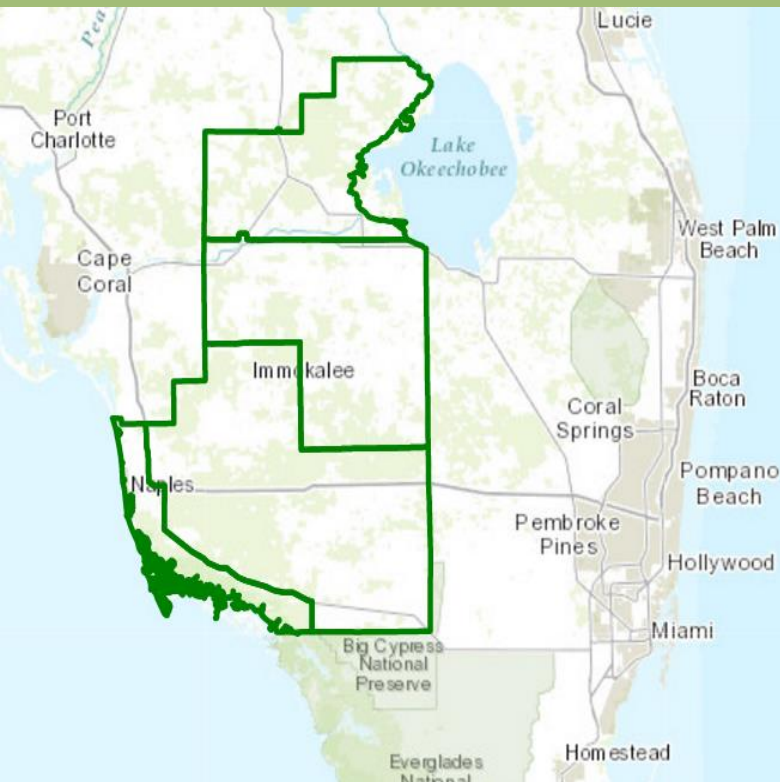
Flood Watch until midnight Monday



THE NATIONAL WEATHER SERVICE IN
MELBOURNE HAS ISSUED A

- FLOOD WATCH FOR...
- VOLUSIA...INDIAN RIVER... MARTIN...
BREVARD... LAKE...OKEECHOBEE...
ORANGE...OSCEOLA... SEMINOLE... AND ST.
LUCIE.
- FROM LATE TONIGHT THROUGH MONDAY
EVENING
- SHOWERS AND SQUALLS WILL MOVE
NORTHWARD ACROSS EAST CENTRAL
FLORIDA ALL DAY MONDAY. PERIODS OF
HEAVY RAIN ARE EXPECTED WITH RAIN
TOTALS OF 3 TO 5 INCHES POSSIBLE OVER
THE WATCH AREA. LOCALLY HIGHER
AMOUNTS WILL BE POSSIBLE.

Flood Watch until midnight Monday night



THE NATIONAL WEATHER SERVICE IN MIAMI HAS ISSUED A

- FLOOD WATCH FOR...
- COLLIER...GLADES...HENDRY.
- FROM LATE TONIGHT THROUGH MONDAY EVENING.
- HEAVY RAINFALL WILL SPREAD ACROSS SOUTHWEST FLORIDA AS TROPICAL DEPRESSION THREE PASSES THE REGION.
- WIDESPREAD RAINFALL AMOUNTS OF 2 TO 4 INCHES ARE EXPECTED OVER COASTAL SOUTHWEST FLORIDA WITH LOCALIZED HEAVIER AMOUNTS POSSIBLE IN THOSE AREAS IMPACTED BY TRAINING OR SLOW-MOVING STORMS.

Flood Advisory Definitions

<p>Urban / Small Stream Advisory</p> <p>WHAT IS IT? Flooding of small streams, streets and low-lying areas.</p> <p>WHAT TO DO? Stay away from areas that are prone to flooding and stay clear of rapidly moving water</p>	<p>Flood Watch</p> <p>WHAT IS IT? Flooding is possible – typically within a 6 to 48 hours before rain is expected to reach the area.</p> <p>WHAT TO DO? Stay tuned to local river forecasts; prepare for areas near rivers to spread towards nearby roads and buildings</p>	<p>Flash Flood Watch</p> <p>WHAT IS IT? Flash flooding is possible – typically 6 to 48 hours before rain is expected to reach the area.</p> <p>WHAT TO DO? Have a way to receive local warnings, expect hazardous travel conditions and have alternate routes available</p>	<p>Flood Warning</p> <p>WHAT IS IT? Flooding impacts are occurring or imminent.</p> <p>WHAT TO DO? Stay <i>alert</i> for inundated roadways and follow all local signage! Additional impacts include homes and structures could become flooded and need to be evacuated</p>	<p>Flash Flood Warning</p> <p>WHAT IS IT? Flash flooding impacts are occurring or imminent.</p> <p>WHAT TO DO? Conditions will <i>rapidly</i> become hazardous! Do not cross flooded roadways or approach inundated areas as water may still be rising</p>	<p>Flash Flood Emergency</p> <p>WHAT IS IT? Flash flood situation that presents a clear threat to human life due to extremely dangerous flooding conditions</p> <p>WHAT TO DO? <i>Immediately</i> reach higher ground by any means possible</p>
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How is a flash flood different from a standard flood?

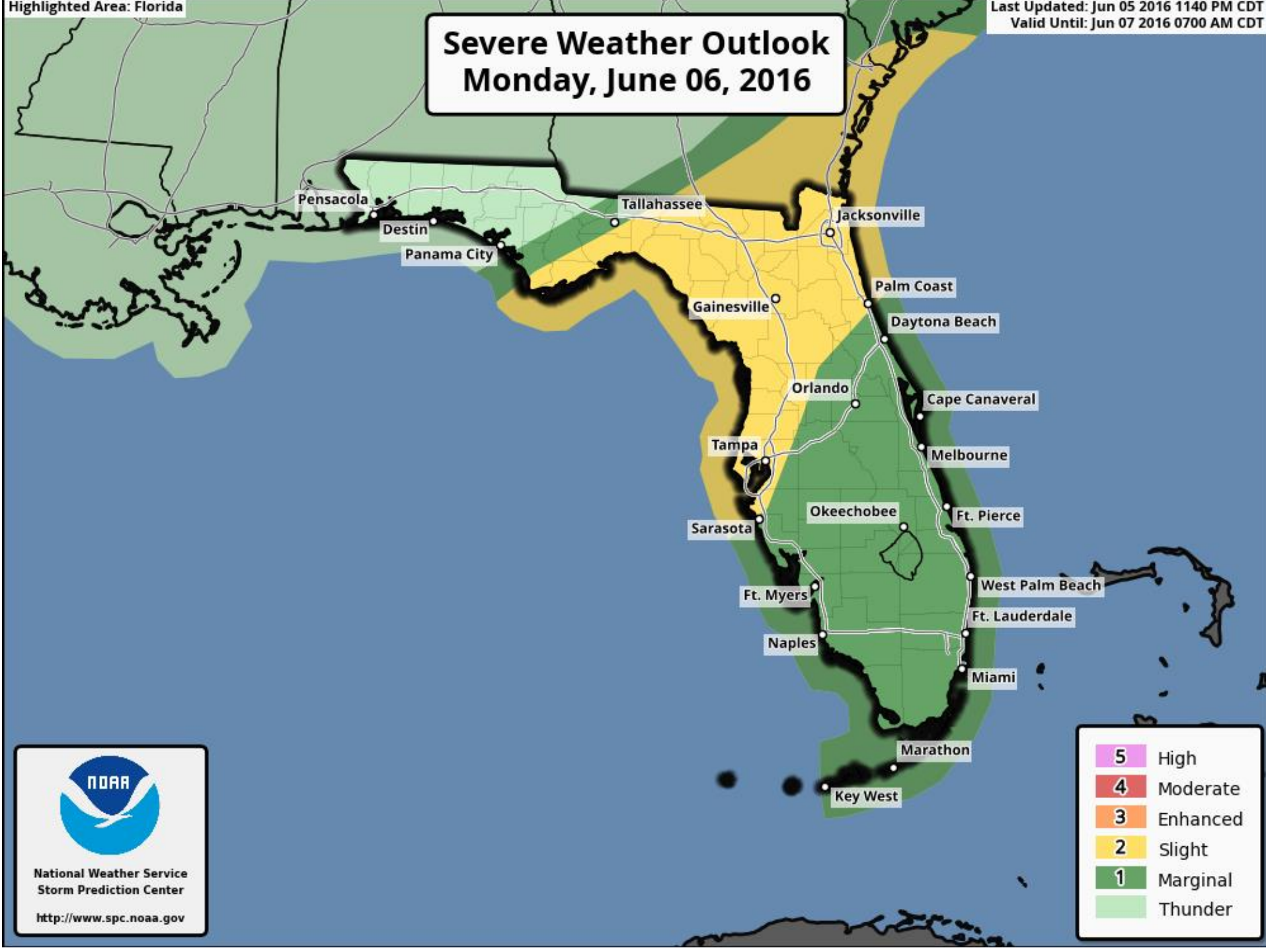
Flash floods are characterized by rapid rise of water on the order of a few minutes to 6 hours that can occur anywhere. A flood watch or warning pertains to larger streams and rivers that take much longer to respond (3 hours to weeks) but move much larger amounts of water through sensitive areas

Flooding Can Happen Anywhere. Are you "Flood Prepared"?



Be Flood Aware. Turn Around. Don't Drown!

Severe Weather Outlook Monday, June 06, 2016

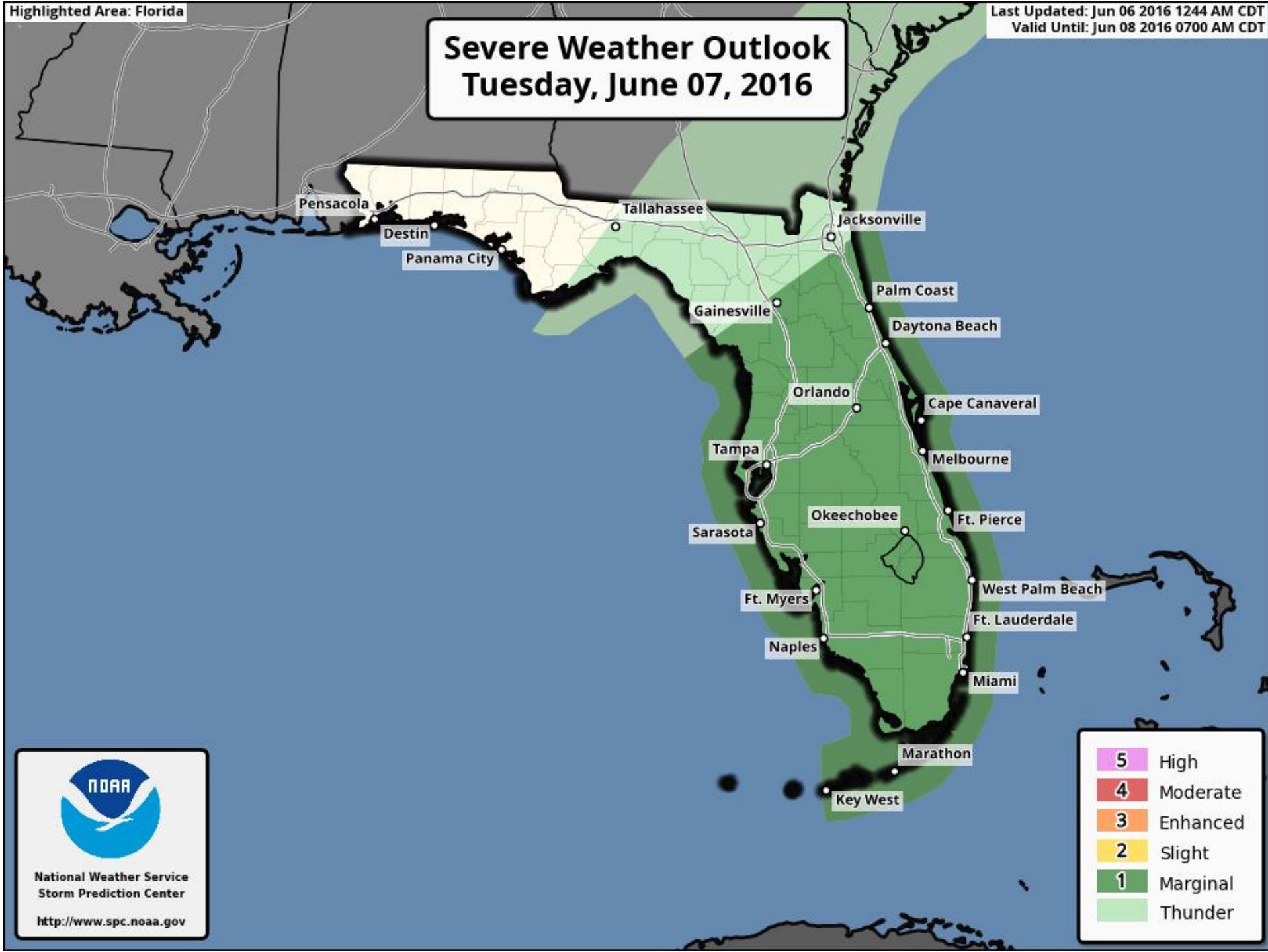


National Weather Service
Storm Prediction Center

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

5	High
4	Moderate
3	Enhanced
2	Slight
1	Marginal
	Thunder

Severe Weather Outlook Tuesday, June 07, 2016







National Weather Service
Storm Prediction Center

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

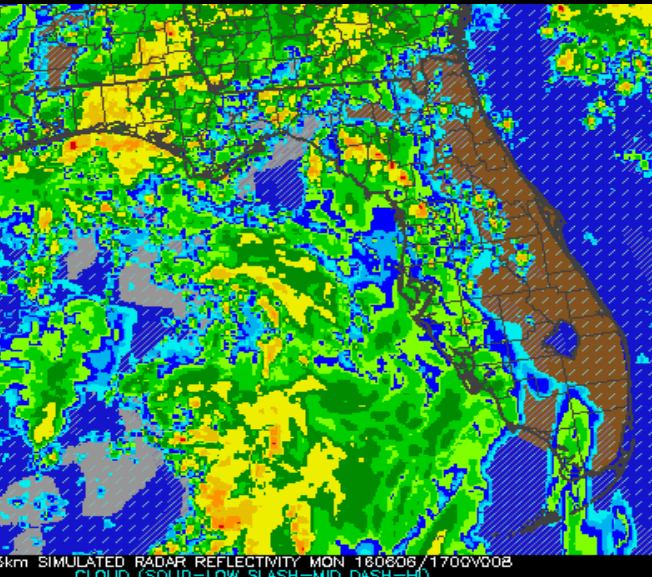
5	High
4	Moderate
3	Enhanced
2	Slight
1	Marginal
	Thunder

Understanding Severe Thunderstorm Risk Categories

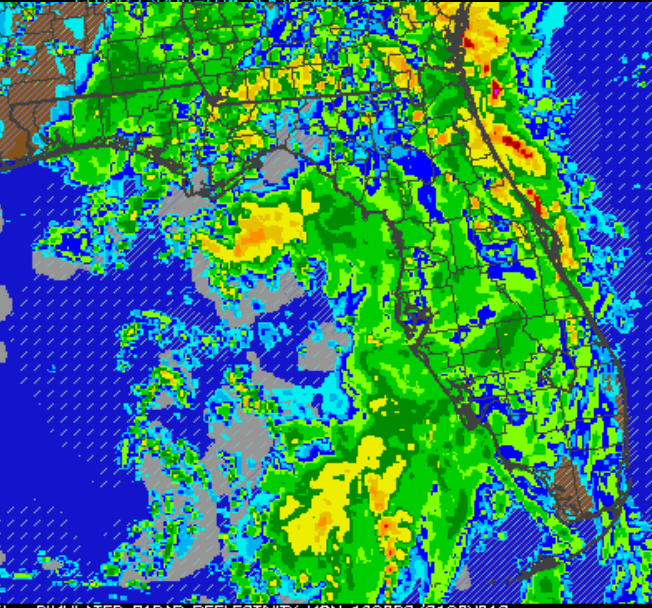
THUNDERSTORMS (no label)	1 - MARGINAL (MRGL)	2 - SLIGHT (SLGT)	3 - ENHANCED (ENH)	4 - MODERATE (MDT)	5 - HIGH (HIGH)
No severe* thunderstorms expected	Isolated severe thunderstorms possible	Scattered severe storms possible	Numerous severe storms possible	Widespread severe storms likely	Widespread severe storms expected
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"> • Winds to 40 mph • Small hail 	<ul style="list-style-type: none"> • Winds 40-60 mph • Hail up to 1" • Low tornado risk 	<ul style="list-style-type: none"> • One or two tornadoes • Reports of strong winds/wind damage • Hail ~1", isolated 2" 	<ul style="list-style-type: none"> • A few tornadoes • Several reports of wind damage • Damaging hail, 1 - 2" 	<ul style="list-style-type: none"> • Strong tornadoes • Widespread wind damage • Destructive hail, 2" + 	<ul style="list-style-type: none"> • Tornado outbreak • Derecho

* 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.

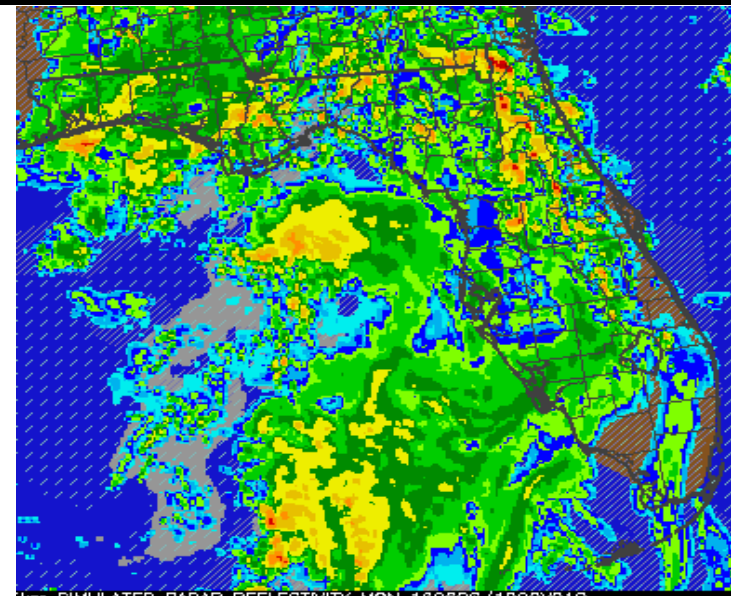
Model Forecast “Future” Radar



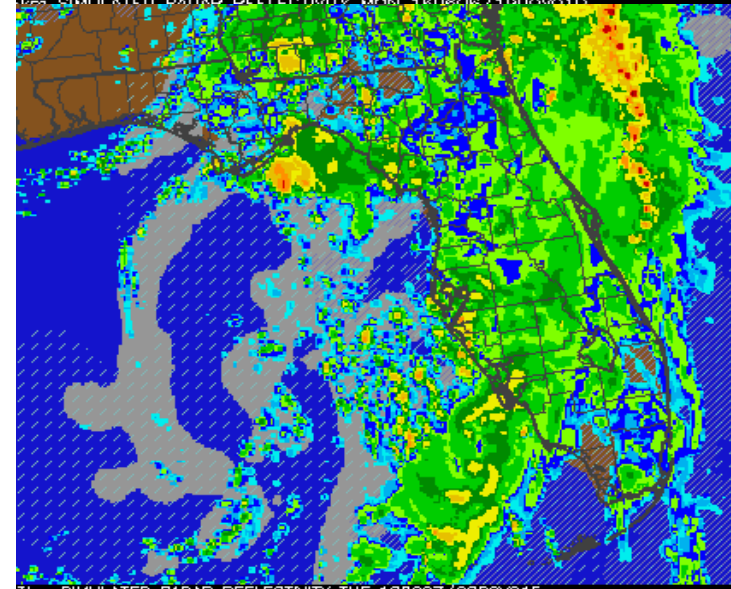
Monday
1pm



Monday
5pm



Monday
3pm



Monday
8pm

Summary:

- At 8am EDT Monday, Tropical Storm Colin was located in the south-central Gulf of Mexico about 278 miles south of Pensacola, or about 315 miles west-southwest of Tampa.
- Maximum sustained winds have increased to 50 mph with higher gusts, and some additional strengthening is possible today before moving inland.
- Colin is moving north-northeast at 14 mph, but a turn to the northeast with an additional increase in forward speed is expected today, with a rapid forward movement predicted on Tuesday.
- Forecast track models remain fairly consistent, with a potential landfall point in the eastern Big Bend or northern Nature Coast.
- Most models, along with the official NHC forecast, predict Colin to remain a weak tropical storm prior to moving across the Florida Peninsula. However, some models have the system getting a little stronger before landfall.
- Tropical-storm-force winds extend outward up to 185 miles mainly to the east of the center.

Continued on next slide...

Florida Outlook:

- However, 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 from Indian Pass to Englewood on the Gulf Coast and from Sebastian Inlet to Altamaha Sound on the Atlantic Coast. This includes the counties of 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, Suwannee and Lafayette. Wind gusts to 50 or 60 mph are possible in these areas.
- Bands of showers and thunderstorms will continue to stream northward today and affect much of the state. Rain may begin to decrease overnight in the Panhandle and push east off the coast through Tuesday afternoon and evening.
- Rainfall and potential flooding remain the largest threat. Total rain amounts from Sunday to Thursday could reach 3-6" across much of the Florida Peninsula, with isolated higher totals up to 8" possible along the Nature Coast. **Flood Watches** have been issued for the Florida Big Bend, Northeast Florida, Central Florida and Southwest Florida.
- Severe thunderstorms with damaging winds and isolated tornadoes are possible across the Florida Big Bend and entire Florida Peninsula today. The Storm Prediction Center has placed these areas in a "**marginal**" to "**slight**" threat for severe weather through Tuesday morning. A marginal risk for severe weather will continue for the Peninsula on Tuesday.
- In addition, 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 with breaking waves of up to 10 feet. Increased waves are also expected along the Atlantic Coast on Tuesday with rip currents expected.

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



TROPICAL UPDATE

Created by:

Amy Godsey, Chief State Meteorologist
amy.godsey@em.myflorida.com

State Meteorological Support Unit
Florida Division of Emergency
Management

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