



TROPICAL UPDATE

5 PM EDT

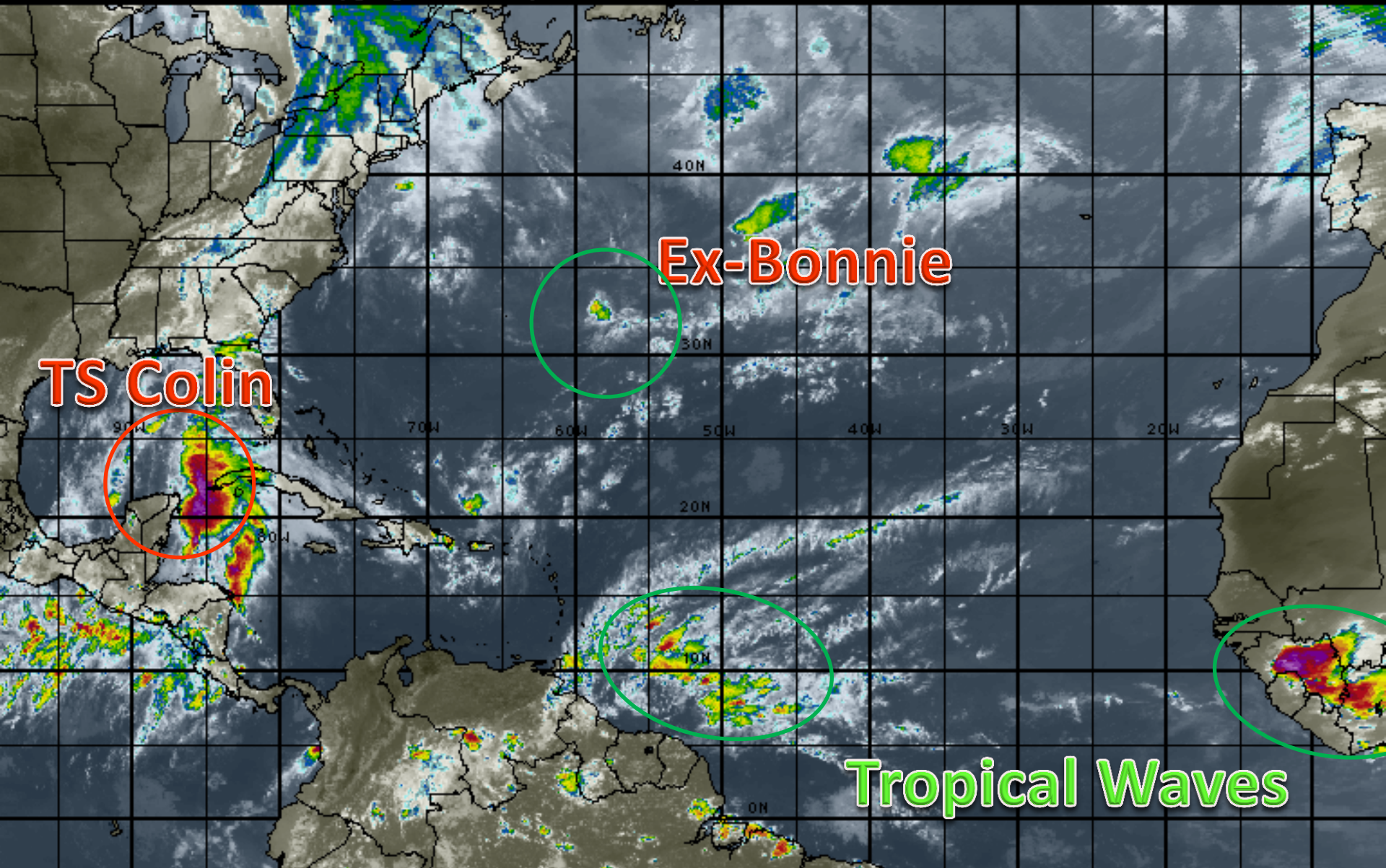
Sunday, June 5, 2016

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

18:00 05-JUN-2016 GMT ©Copyright WSI Corporation <http://www.wsi.com>



Tropical Depression Three

4PM CDT Sun Jun 05 2016

Position 23.3 N 87.9 W

Maximum Winds 35 mph

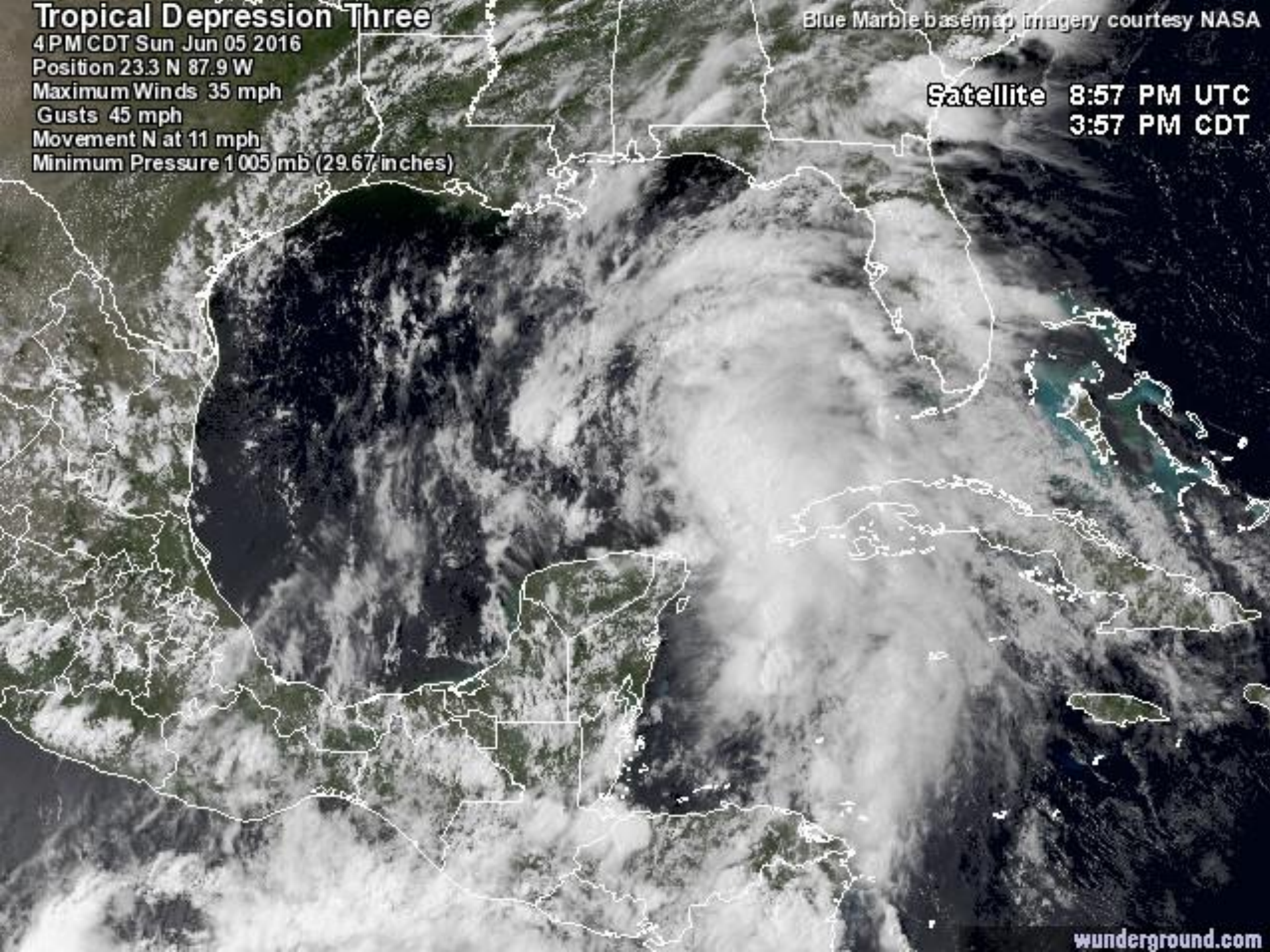
Gusts 45 mph

Movement N at 11 mph

Minimum Pressure 1005 mb (29.67 inches)

Blue Marble basemap imagery courtesy NASA

Satellite 8:57 PM UTC
3:57 PM CDT



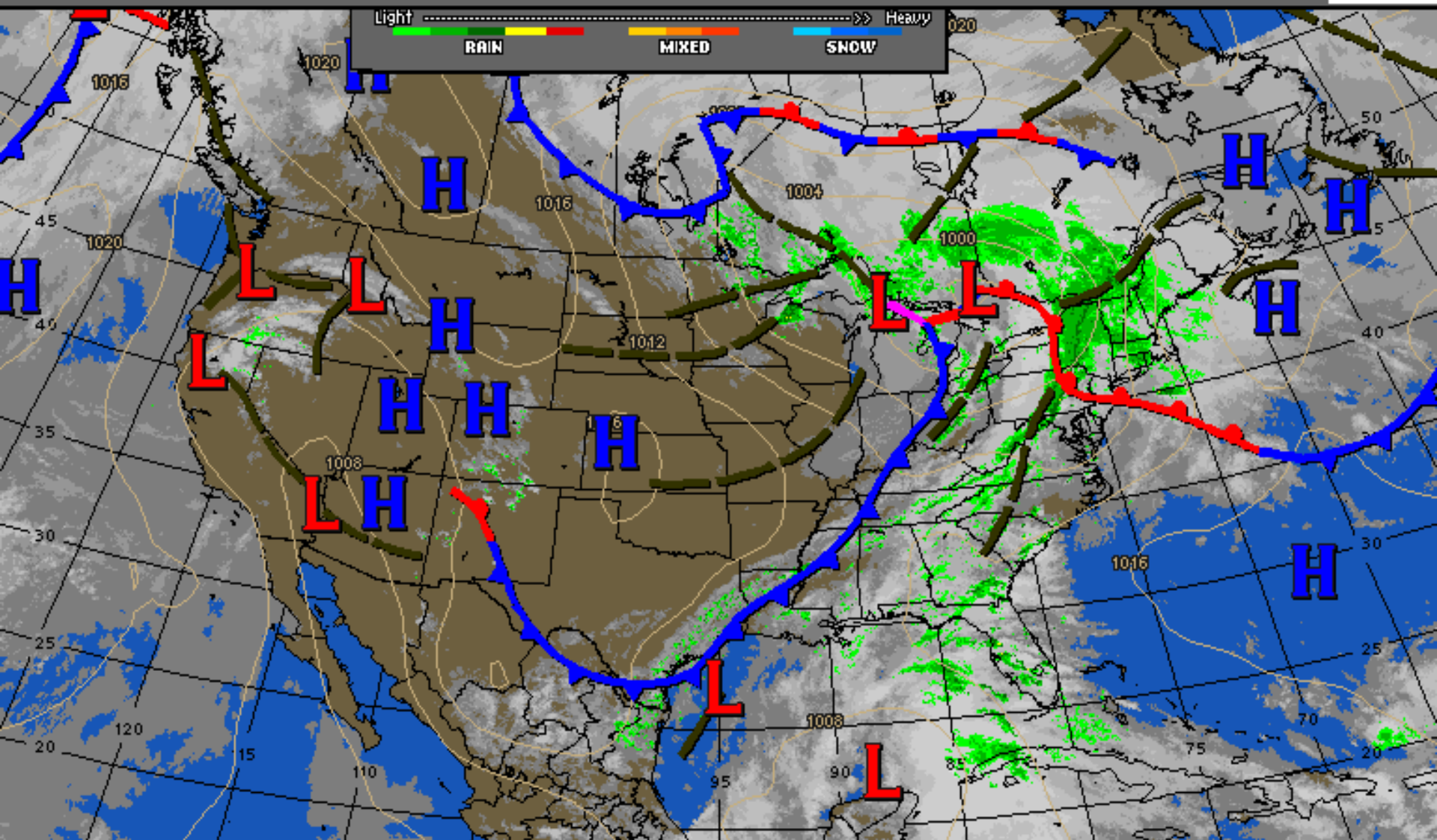
Surface Weather Map

19:30 05-JUN-2016 GMT ©Copyright WSI Corporation <http://www.wsi.com>

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

VALID AT 1800 UTC 05 Jun 16

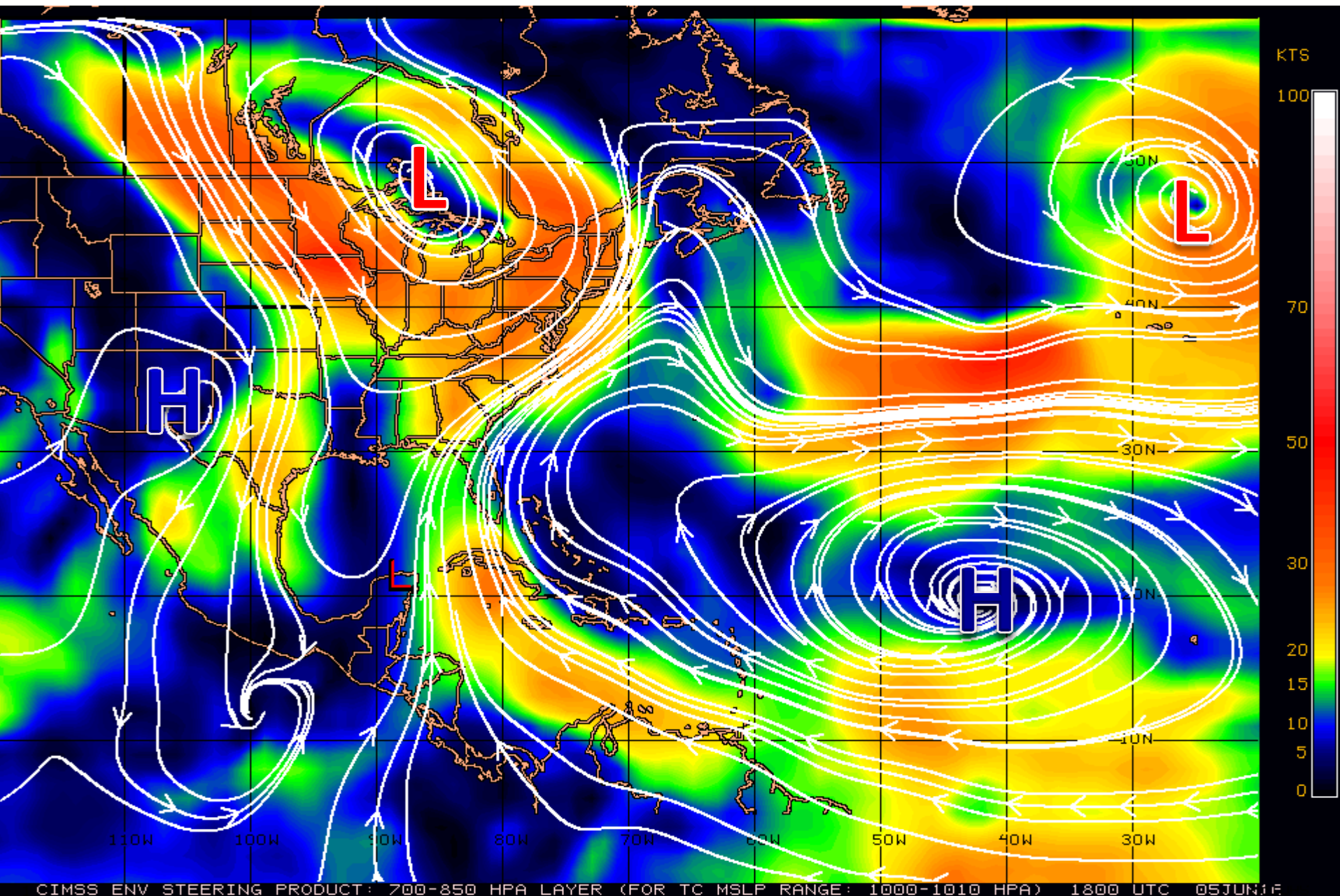
WSI®



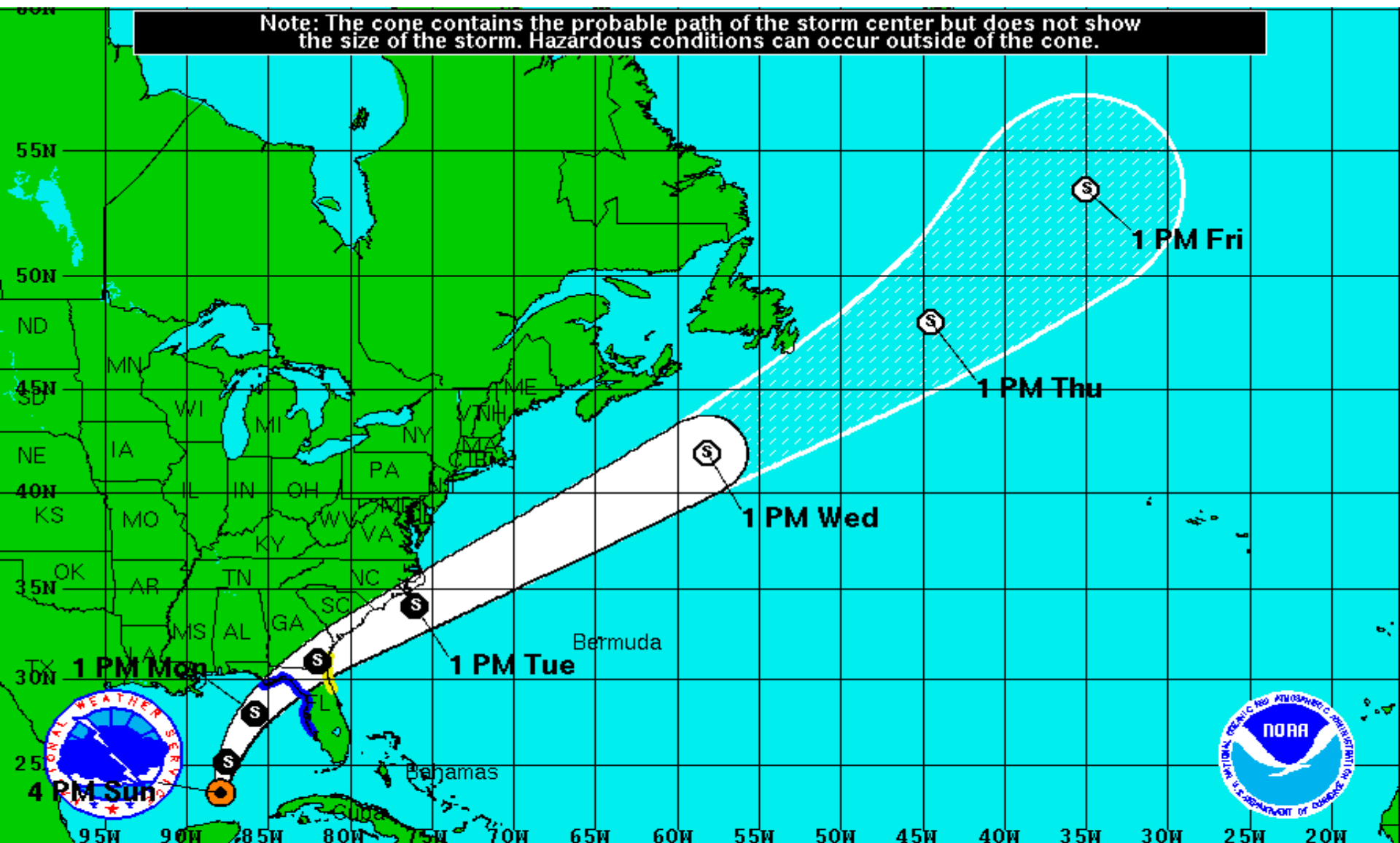
UPDATED 19:40 UTC 05 Jun 16

UPDATED EVERY 3 HOURS

Steering Currents



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 Depression Three

Sunday June 5, 2016

4 PM CDT Advisory 2

NWS National Hurricane Center

Current Information:

Center Location 23.3 N 87.9 W

Max Sustained Wind 35 mph

Movement N at 12 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:

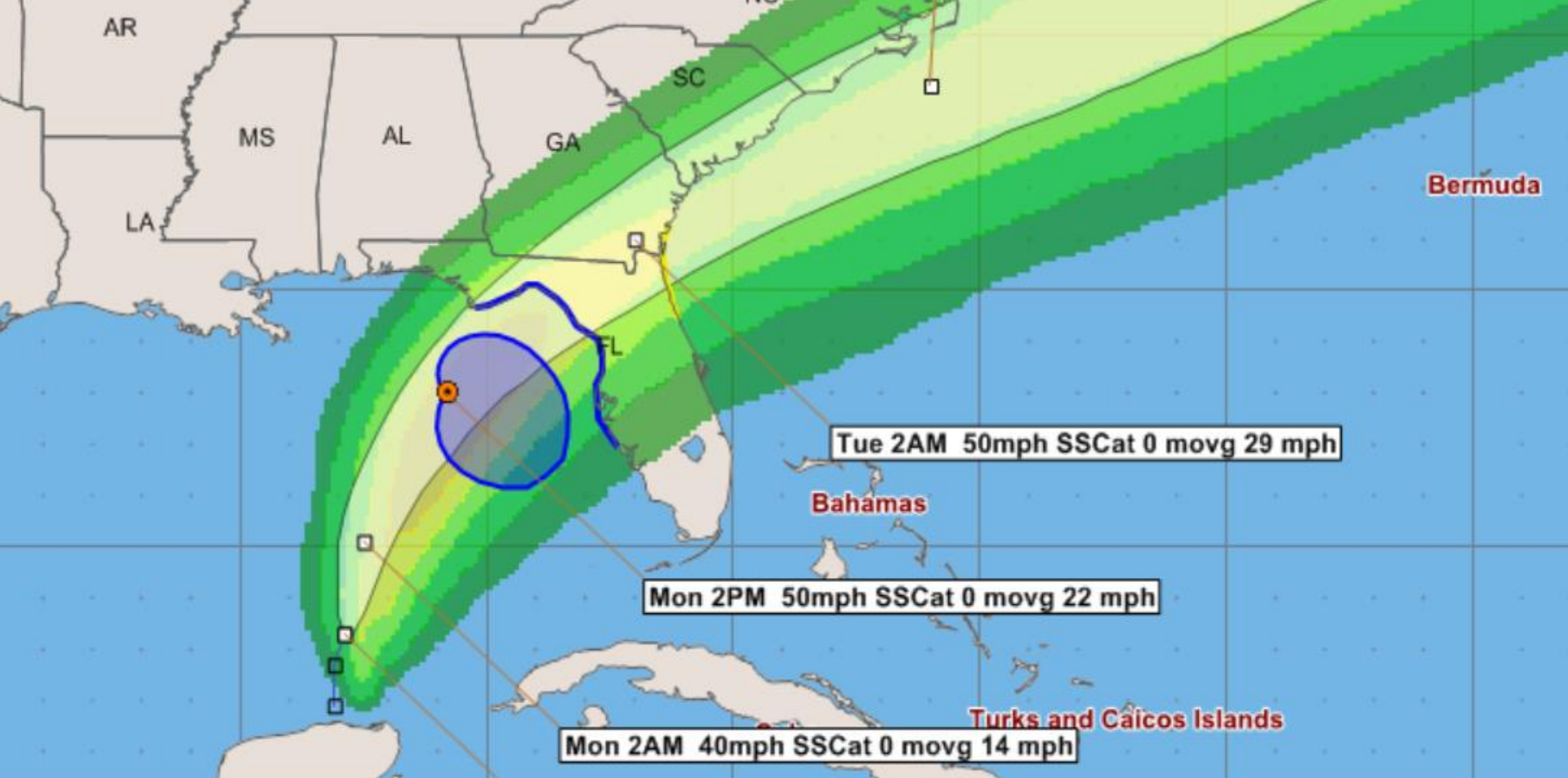
Day 1-3 Day 4-5

Watches:

Hurricane Trop.Storm

Warnings:

Hurricane Trop.Storm



Tropical Depression Three - Monday, June 6, 2016 2 PM EDT (Fcst Hr 21) Advisory #2

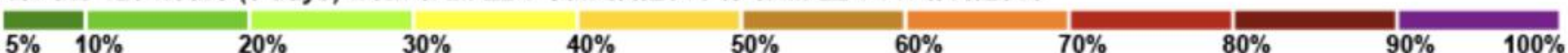
Center Location: 28 N 85.8 W Maximum Sustained Winds: 50 mph Movement: 22 mph NE

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

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

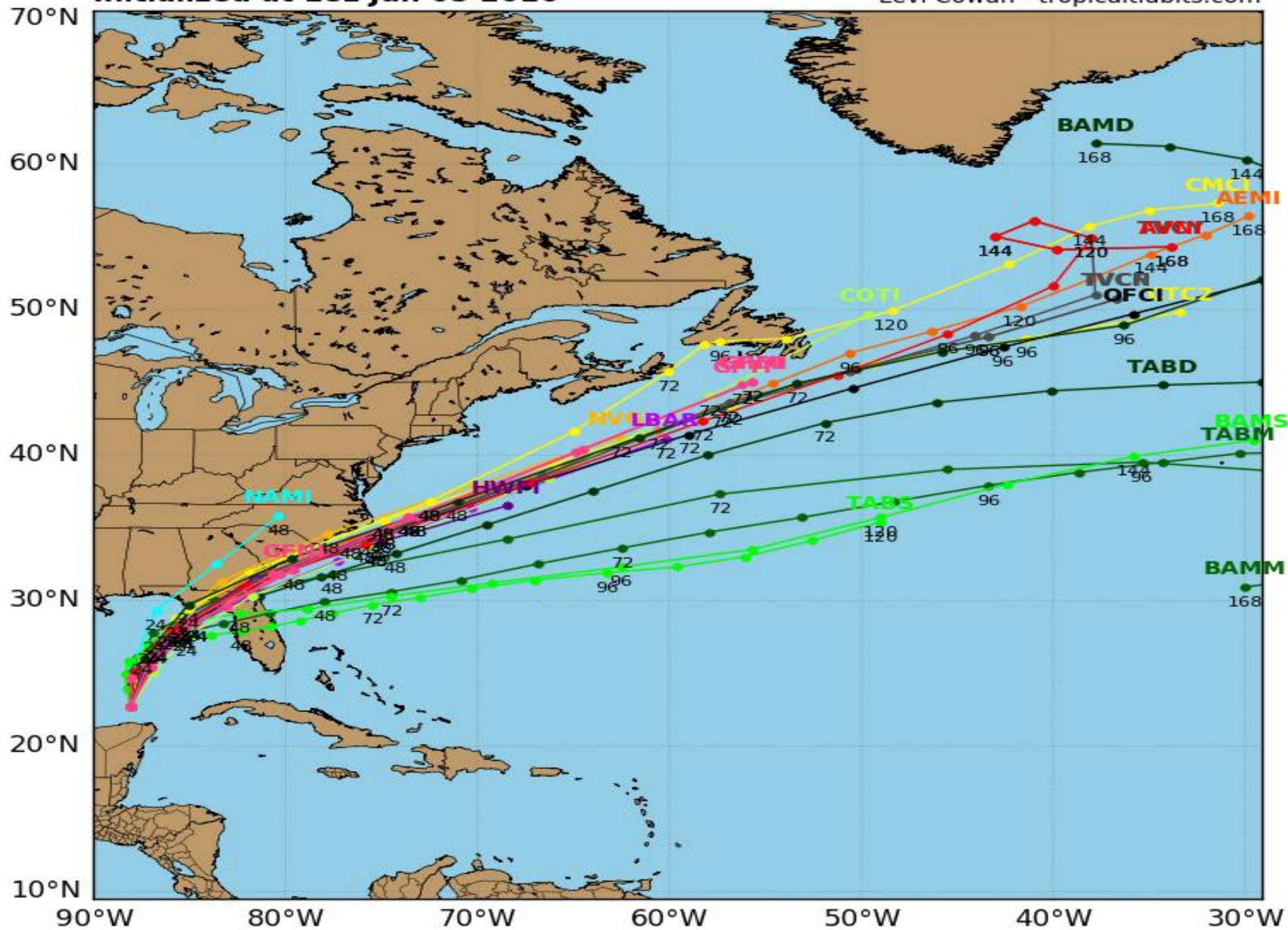
Probability of tropical storm force surface winds (1-minute average ≥ 34 kt/39mph) from all tropical cyclones for the 120 hours (5 days) from 8AM EDT Sun 6/5/2016 to 8AM EDT Fri 6/10/2016

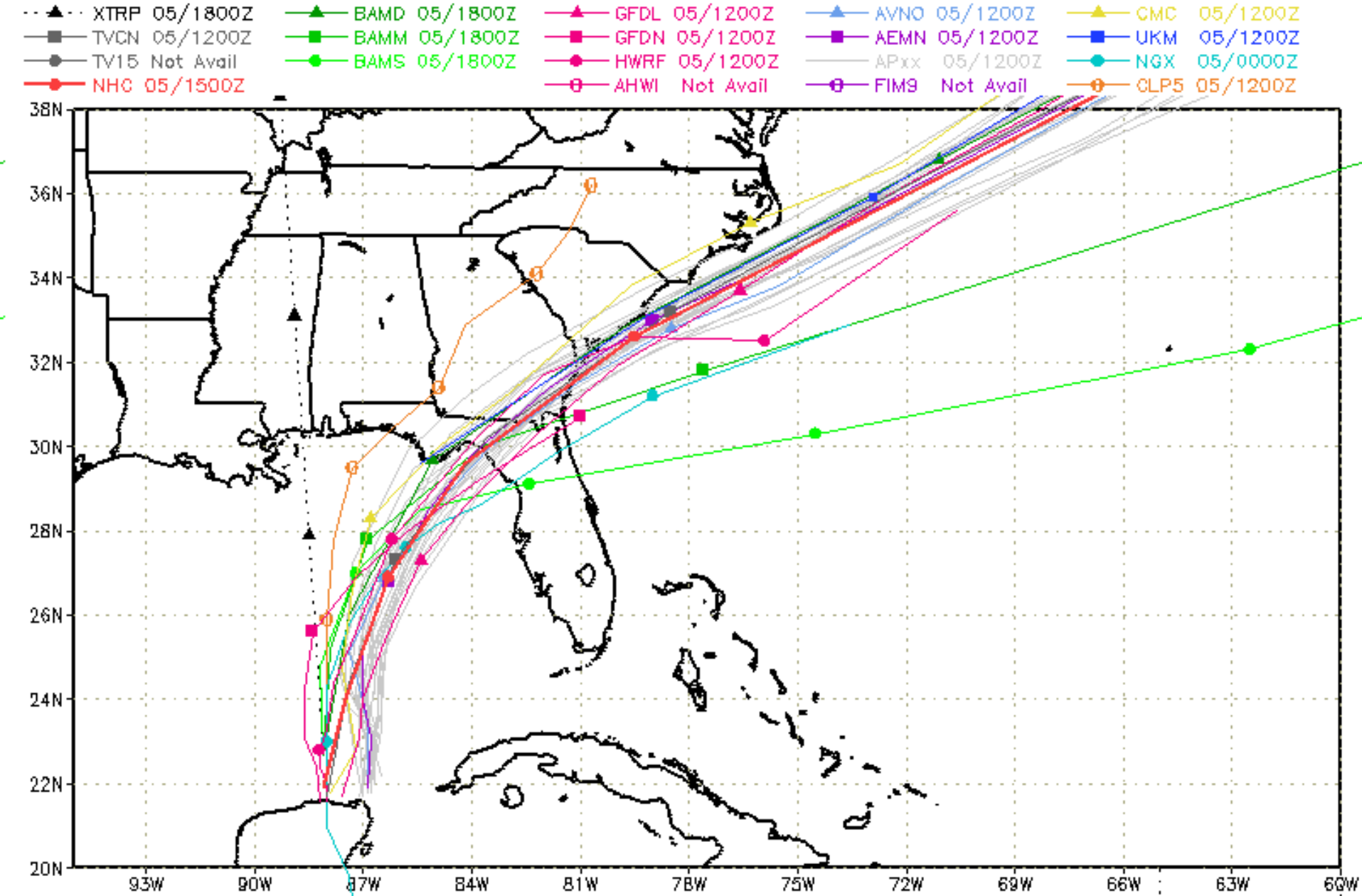


Model Track Guidance

Initialized at 18z Jun 05 2016

Levi Cowan - tropicaltidbits.com





storm_03

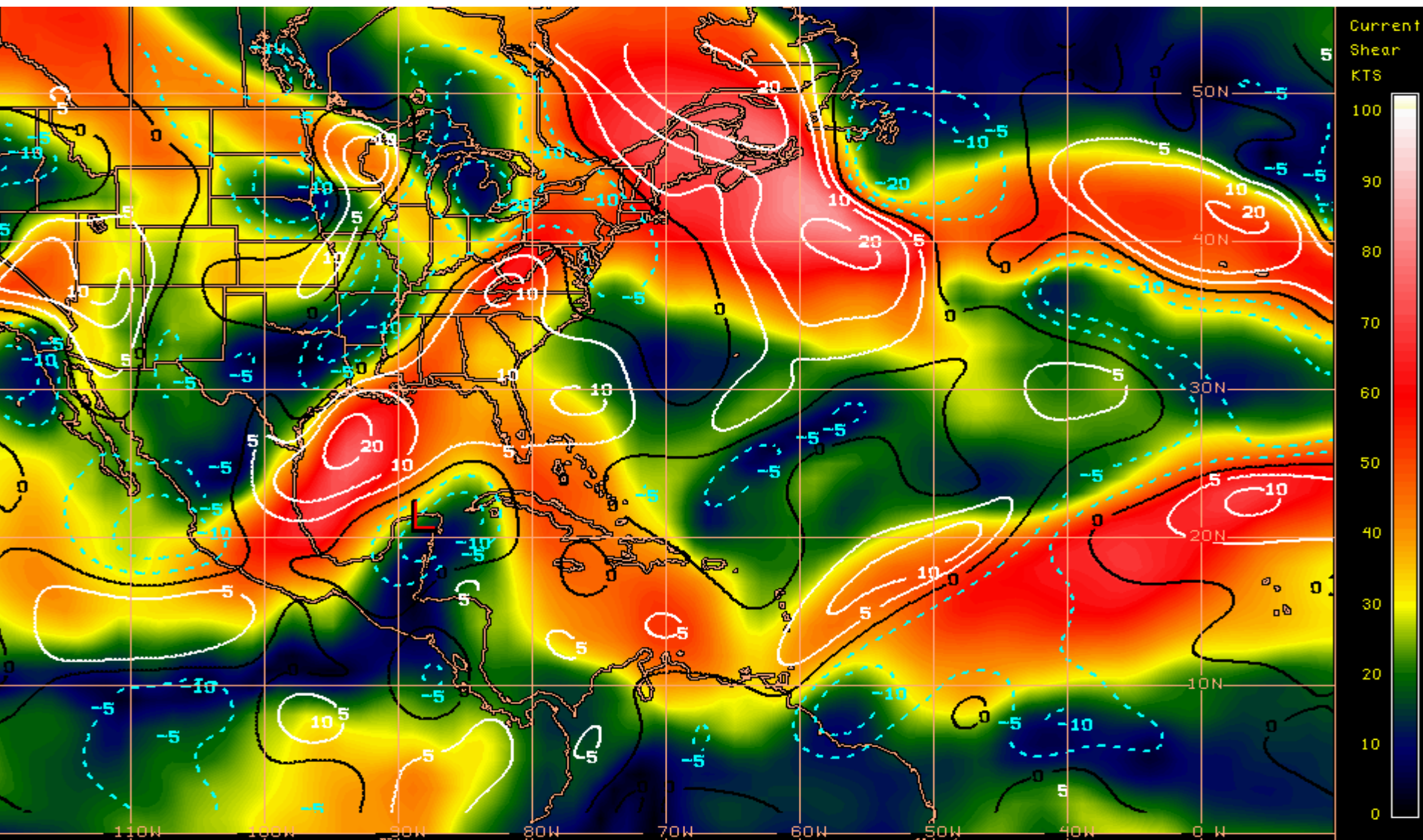
sfwmd.gov

weather@sfwmd.gov
05-Jun 14:36EDT

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>



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

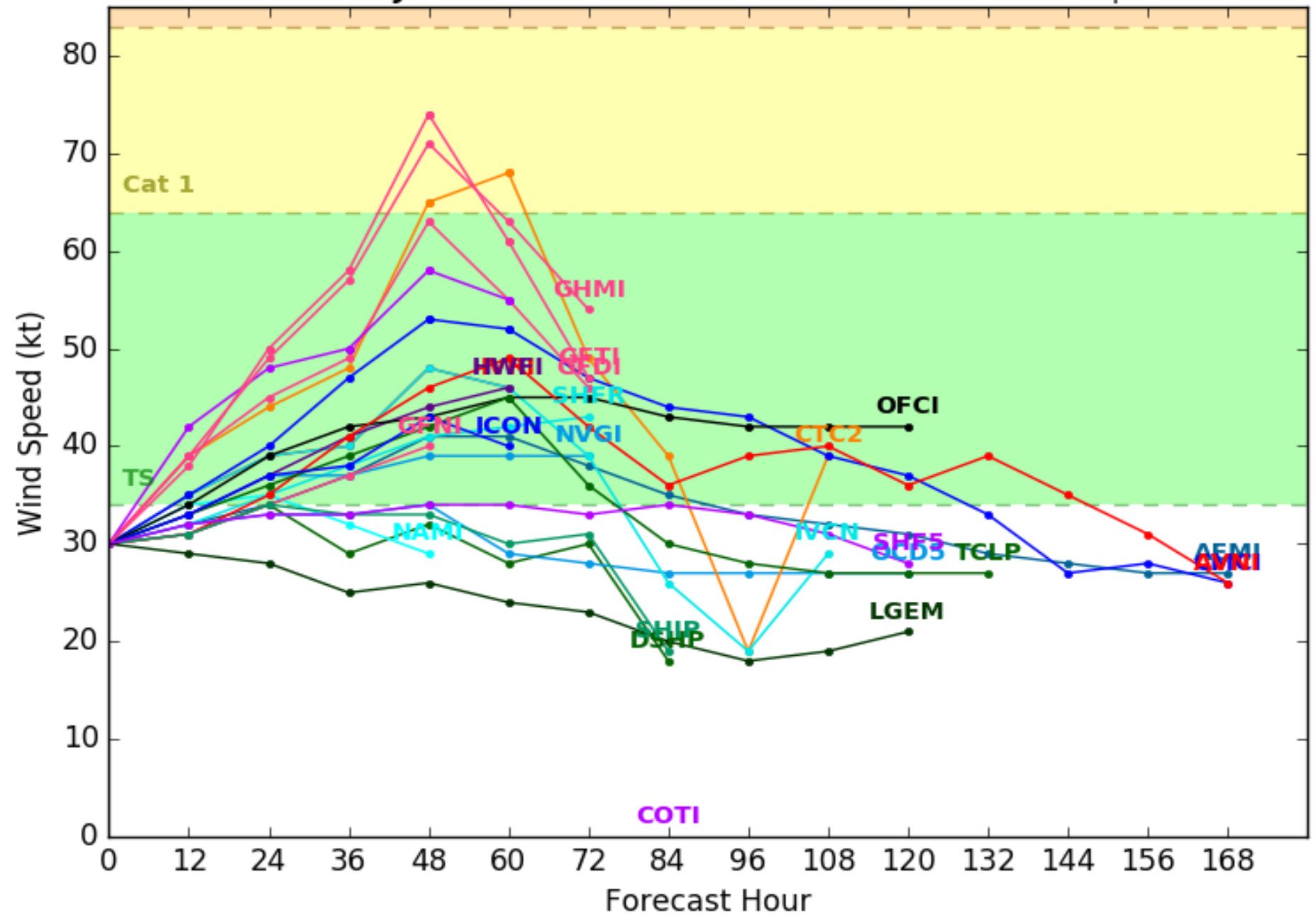


Shear Tendency (KTS) Over Past 24 Hours: Increasing ——— Decreasing - - - -

Model Intensity Guidance

Initialized at 18z Jun 05 2016

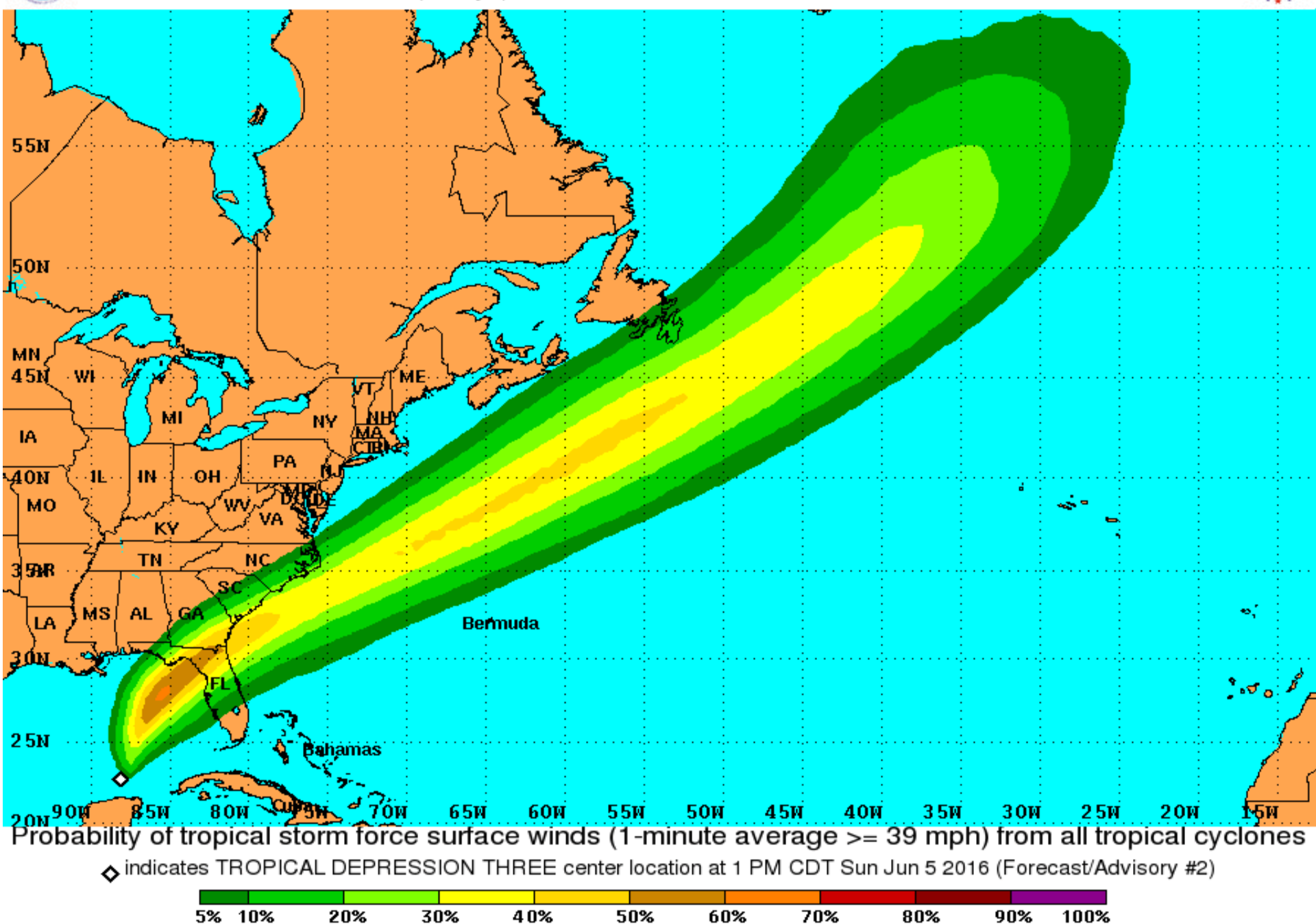
Levi Cowan - tropicaltidbits.com



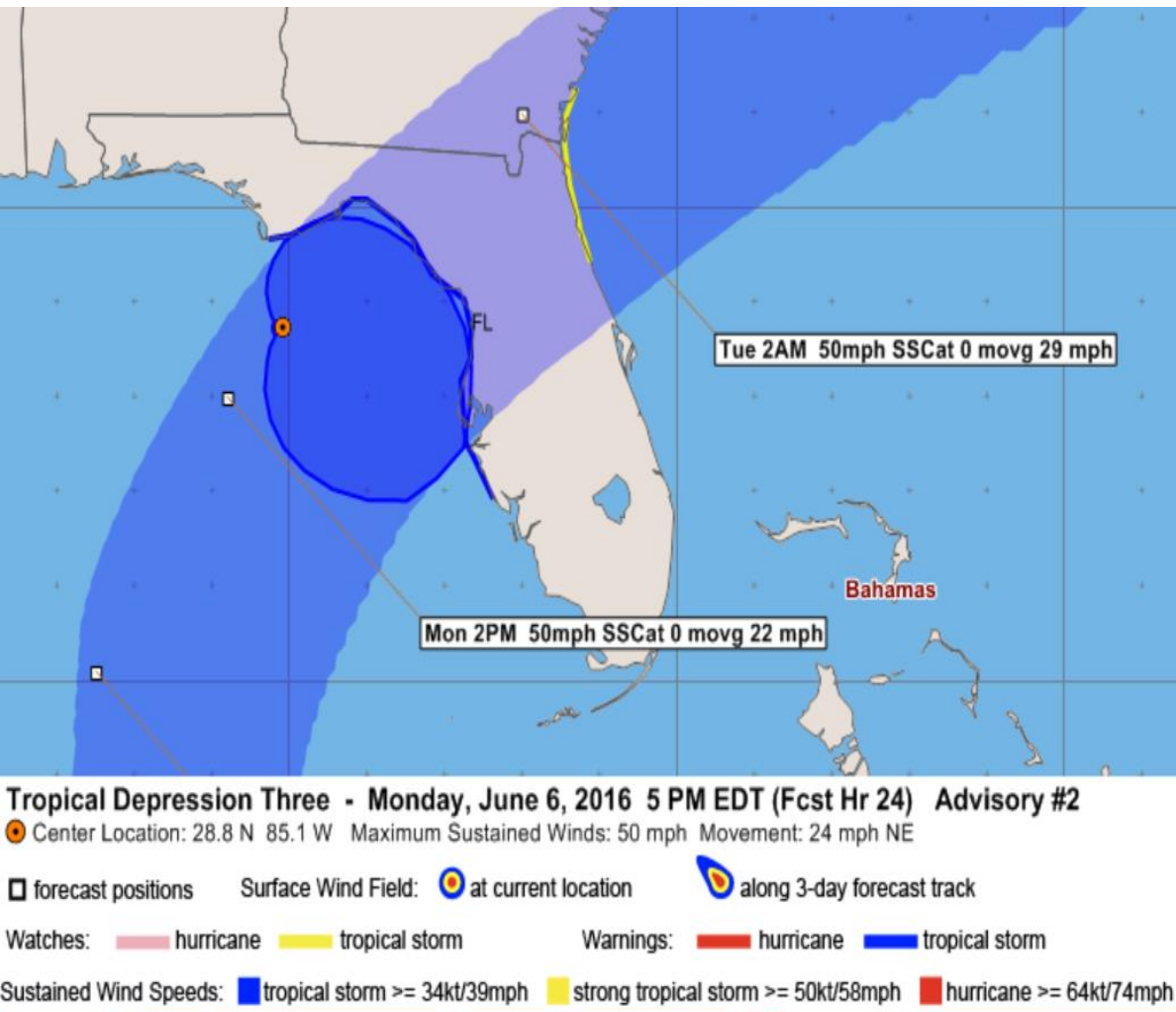


Tropical Storm Force Wind Speed Probabilities

For the 120 hours (5 days) from 1 PM CDT Sun Jun 5 to 1 PM CDT Fri Jun 10

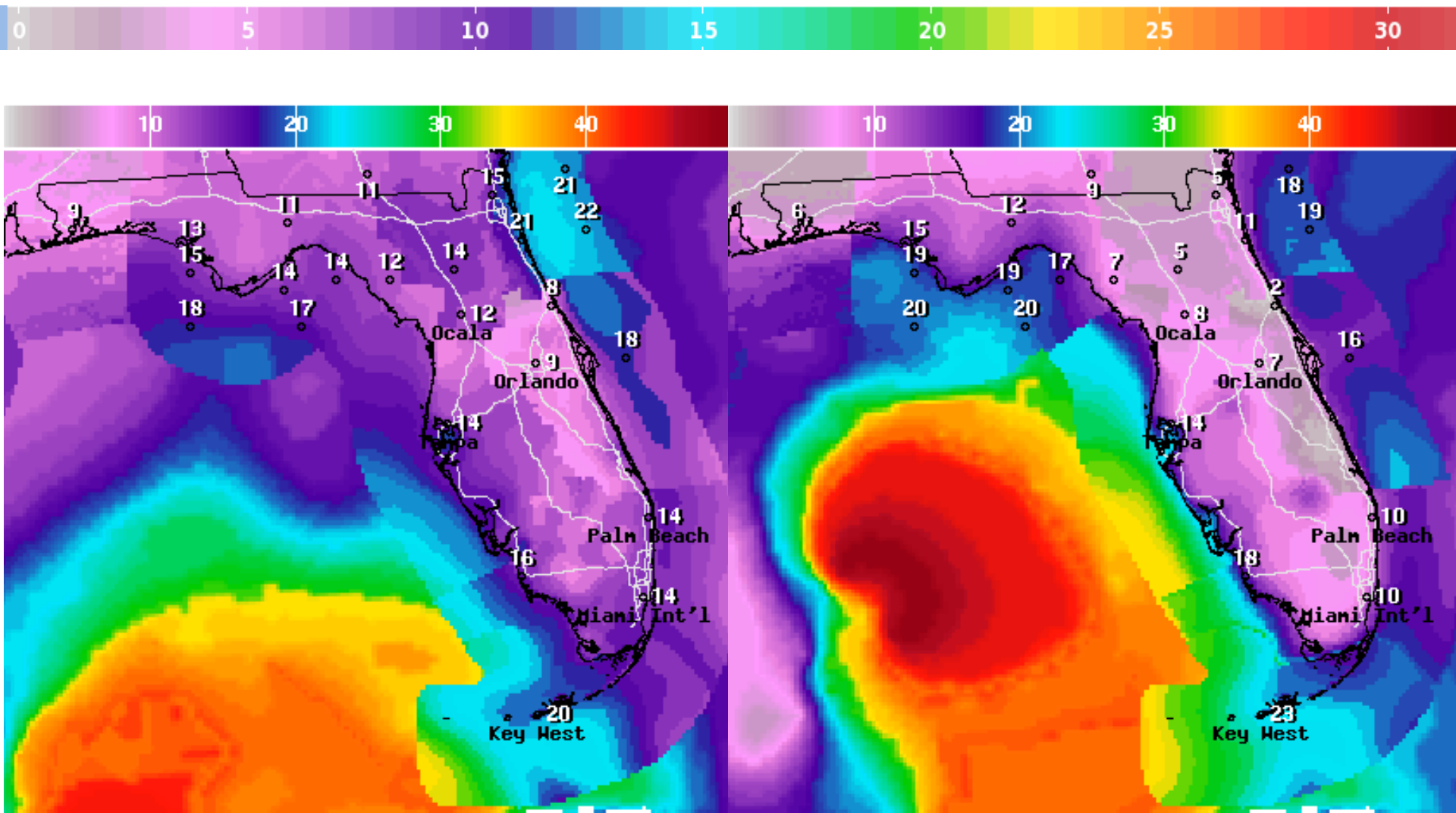


Hurrevac Forecast Wind Swath



- 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

Forecast Wind Gusts (knots) – Tonight



Wind Gust(Kts) Sun Jun 05 2016 5PM EDT

(Sun Jun 05 2016 21Z)

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

(Mon Jun 06 2016 09Z)

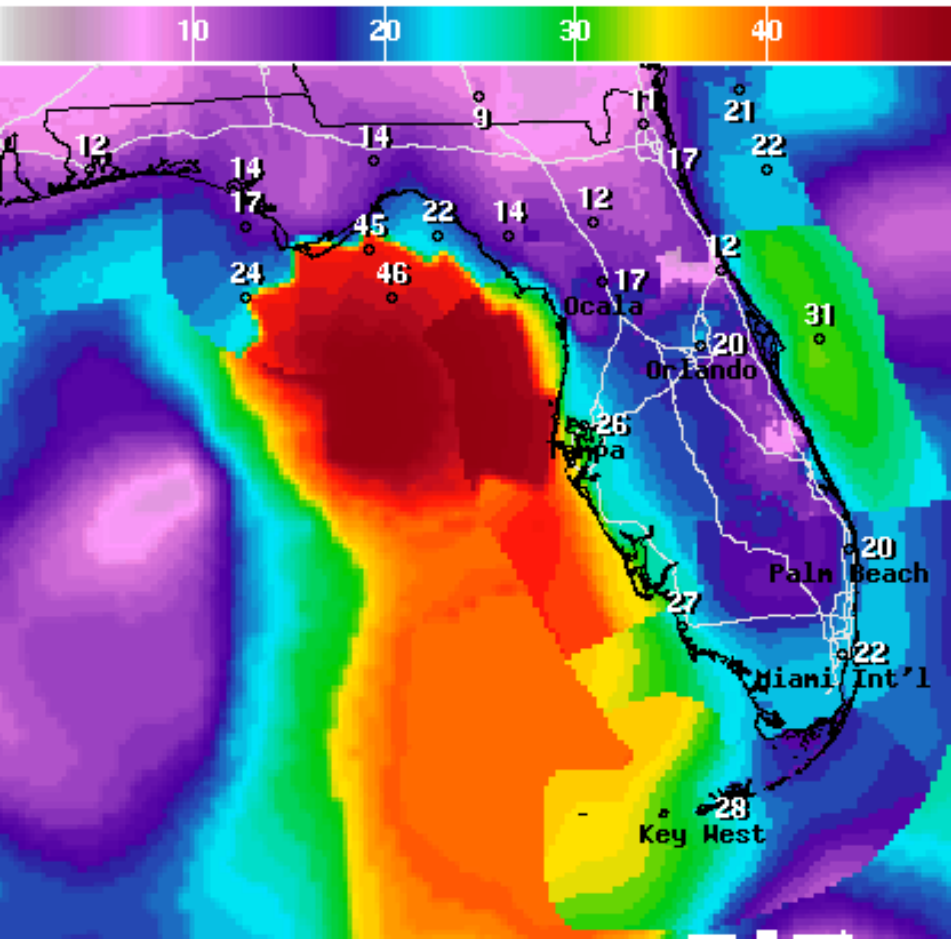
National Digital Forecast Database

19z issuance Graphic created-Jun 05 3:35PM EDT

National Digital Forecast Database

19z issuance Graphic created-Jun 05 3:35PM EDT

Forecast Wind Gusts (knots) – Monday



Wind Gust(Kts) Mon Jun 06 2016 2PM EDT

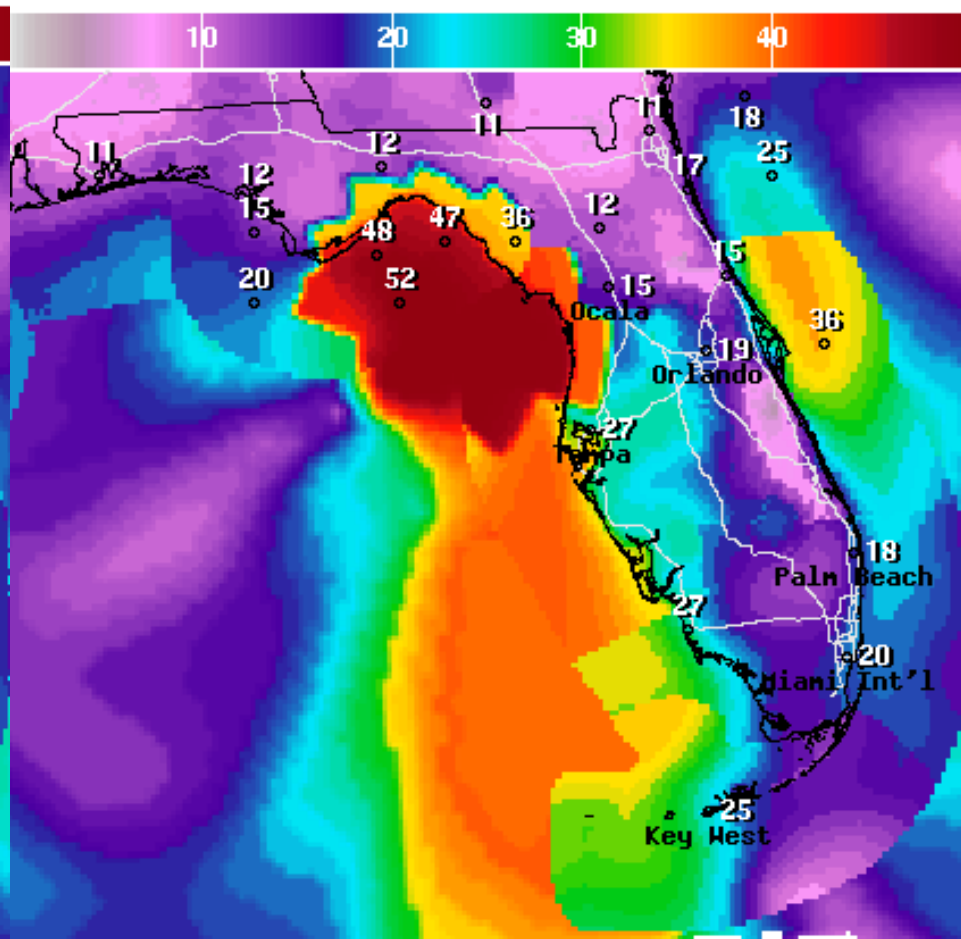
(Mon Jun 06 2016 18Z)



National Digital Forecast Database

19z issuance

Graphic created-Jun 05 3:35PM EDT



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

(Mon Jun 06 2016 21Z)



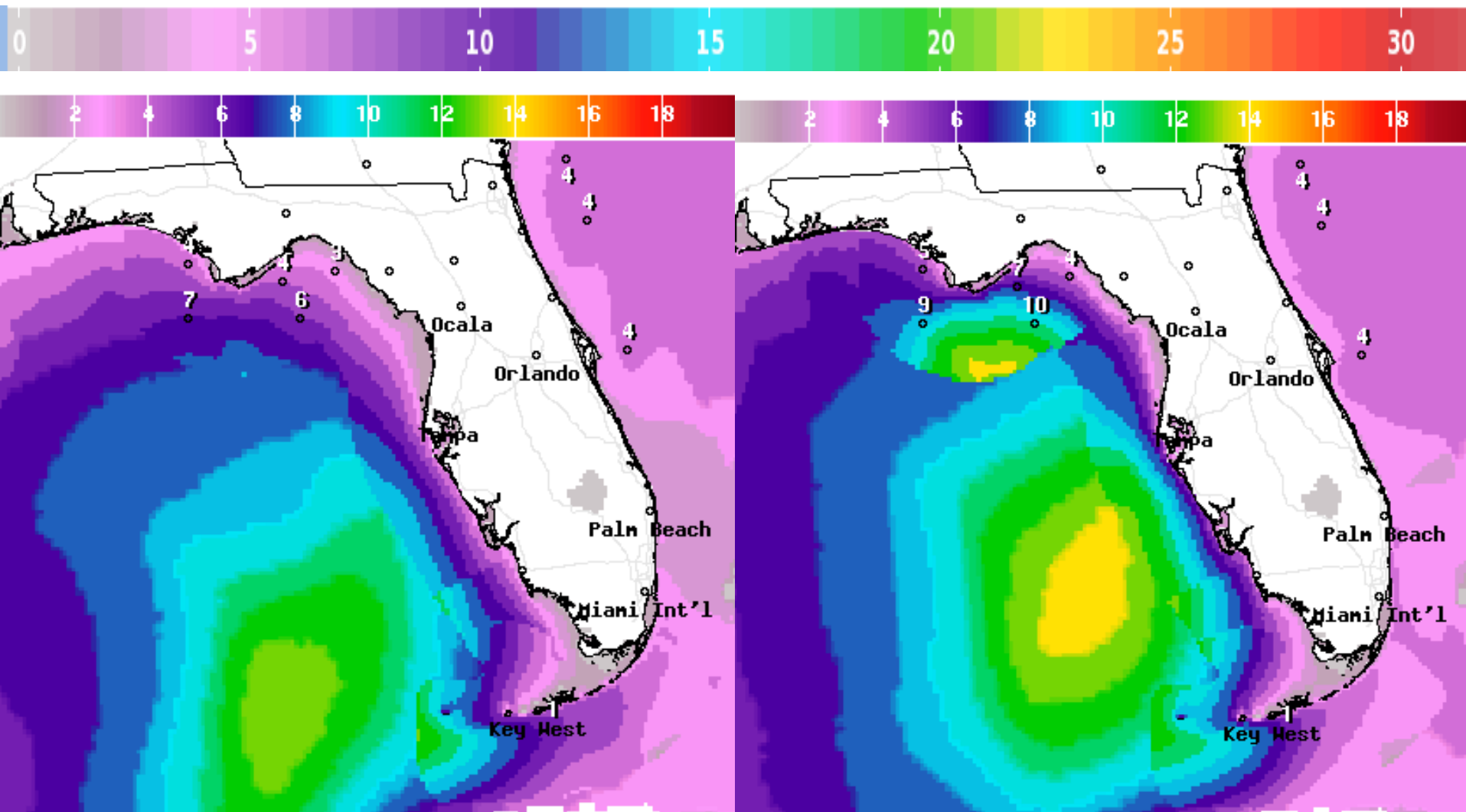
National Digital Forecast Database

19z issuance

Graphic created-Jun 05 3:35PM EDT



Forecast Wave Heights (feet) – Monday



Wave Height(ft) Ending Mon Jun 06 2016 8AM EDT
(Mon Jun 06 2016 12Z)



National Digital Forecast Database

19z issuance

Graphic created-Jun 05 3:33PM EDT



Wave Height(ft) Ending Mon Jun 06 2016 2PM EDT
(Mon Jun 06 2016 18Z)



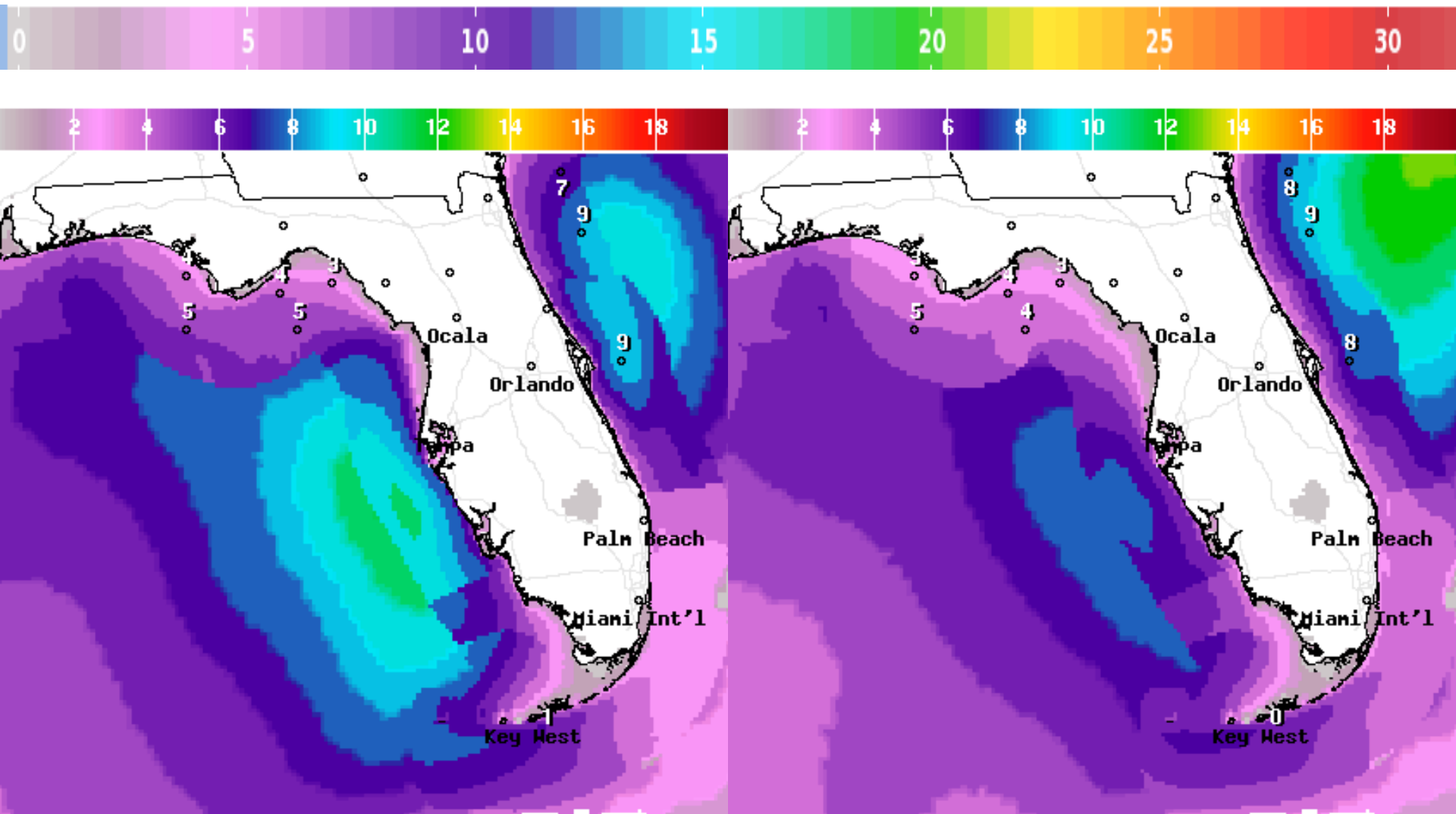
National Digital Forecast Database

19z issuance

Graphic created-Jun 05 3:29PM EDT



Forecast Wave Heights (feet) – Tuesday



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

(Tue Jun 07 2016 06Z)



National Digital Forecast Database

19z issuance

Graphic created-Jun 05 3:29PM EDT



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

(Tue Jun 07 2016 12Z)



National Digital Forecast Database

19z issuance

Graphic created-Jun 05 3:34PM EDT



Elevated

Moderate

High

Extreme

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

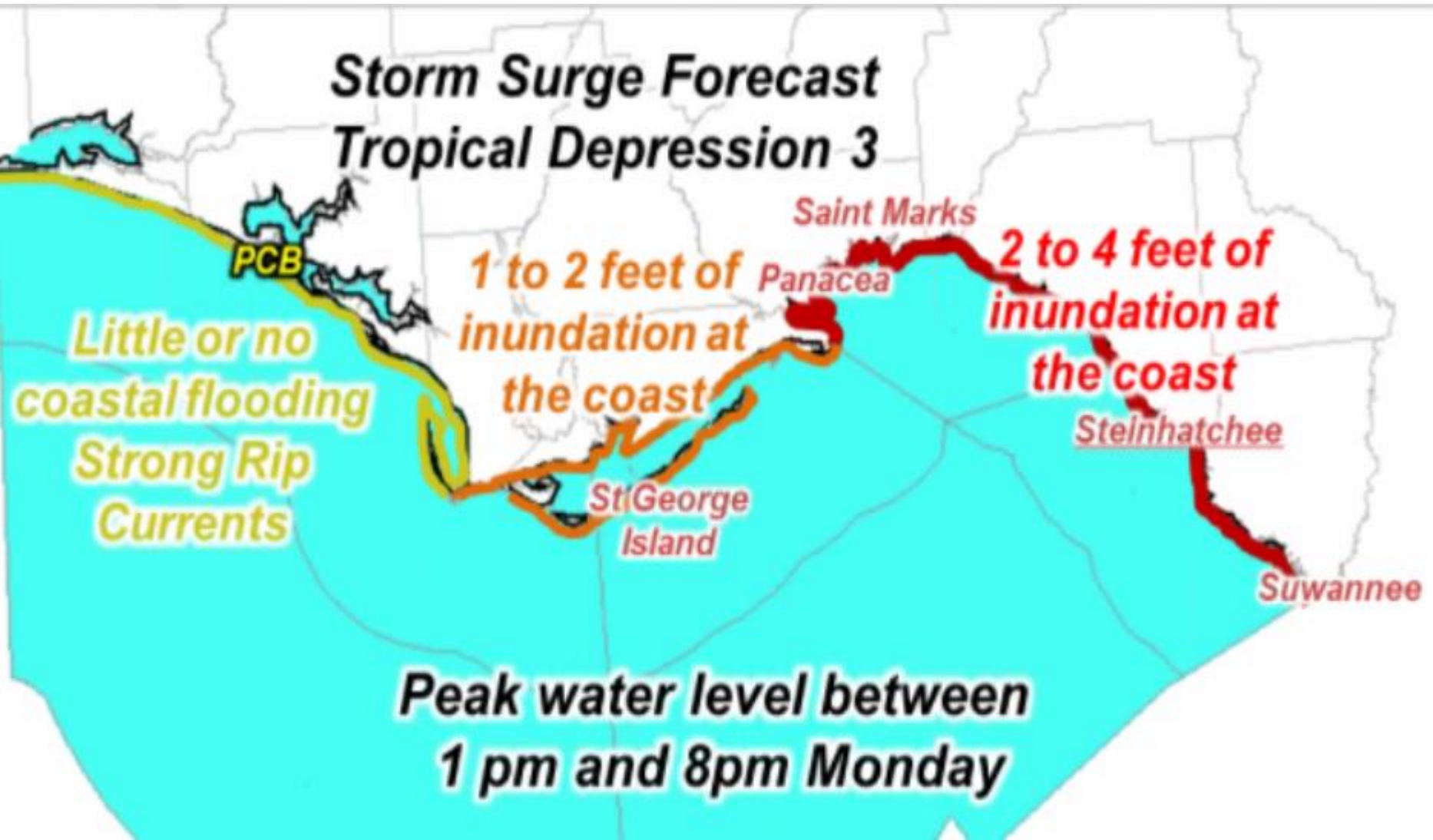


Storm Surge Threat

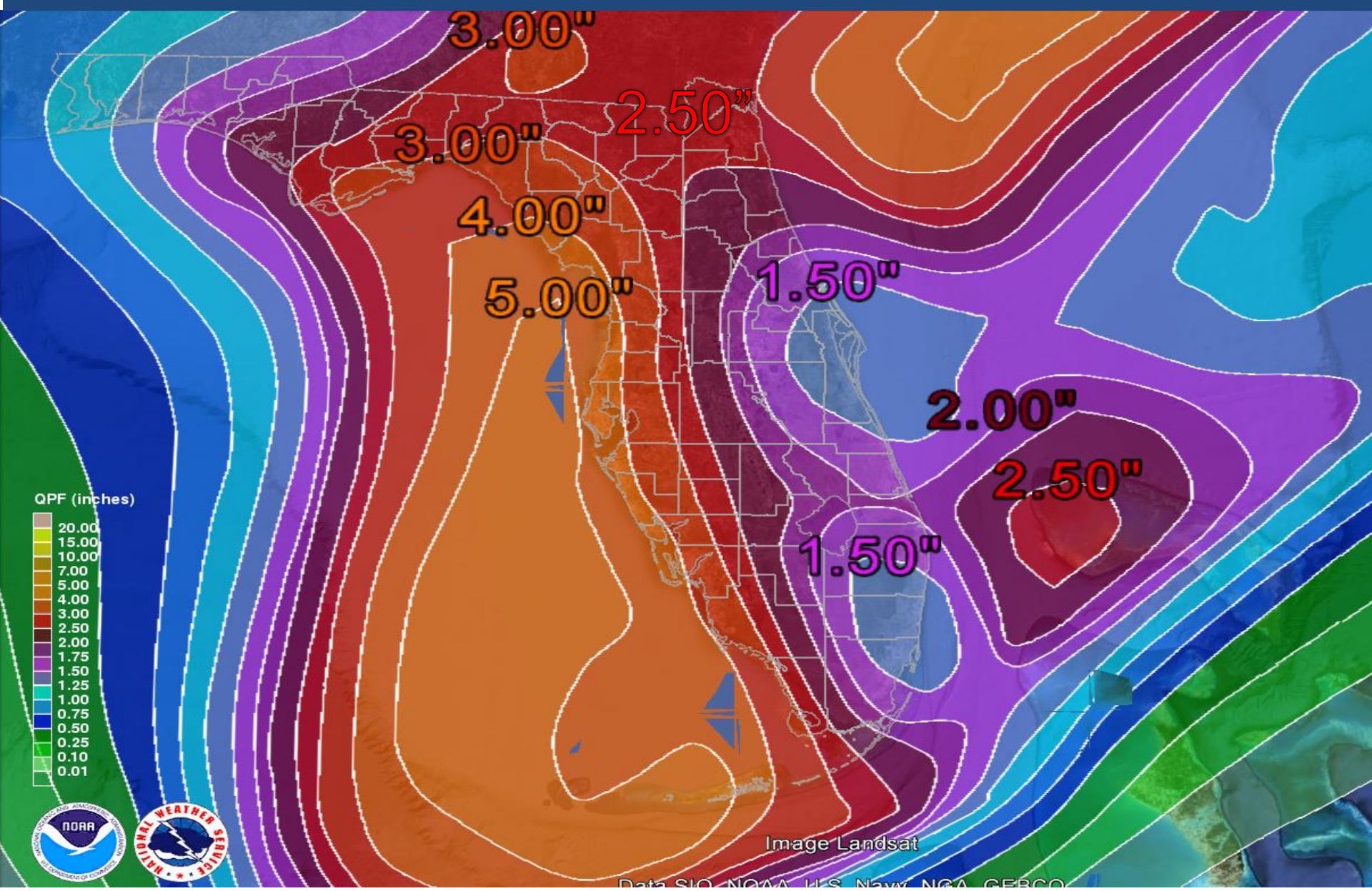
Through: Tue, Jun 7 2016, 8 PM EDT

Issued: Jun 05 at 1 PM EDT

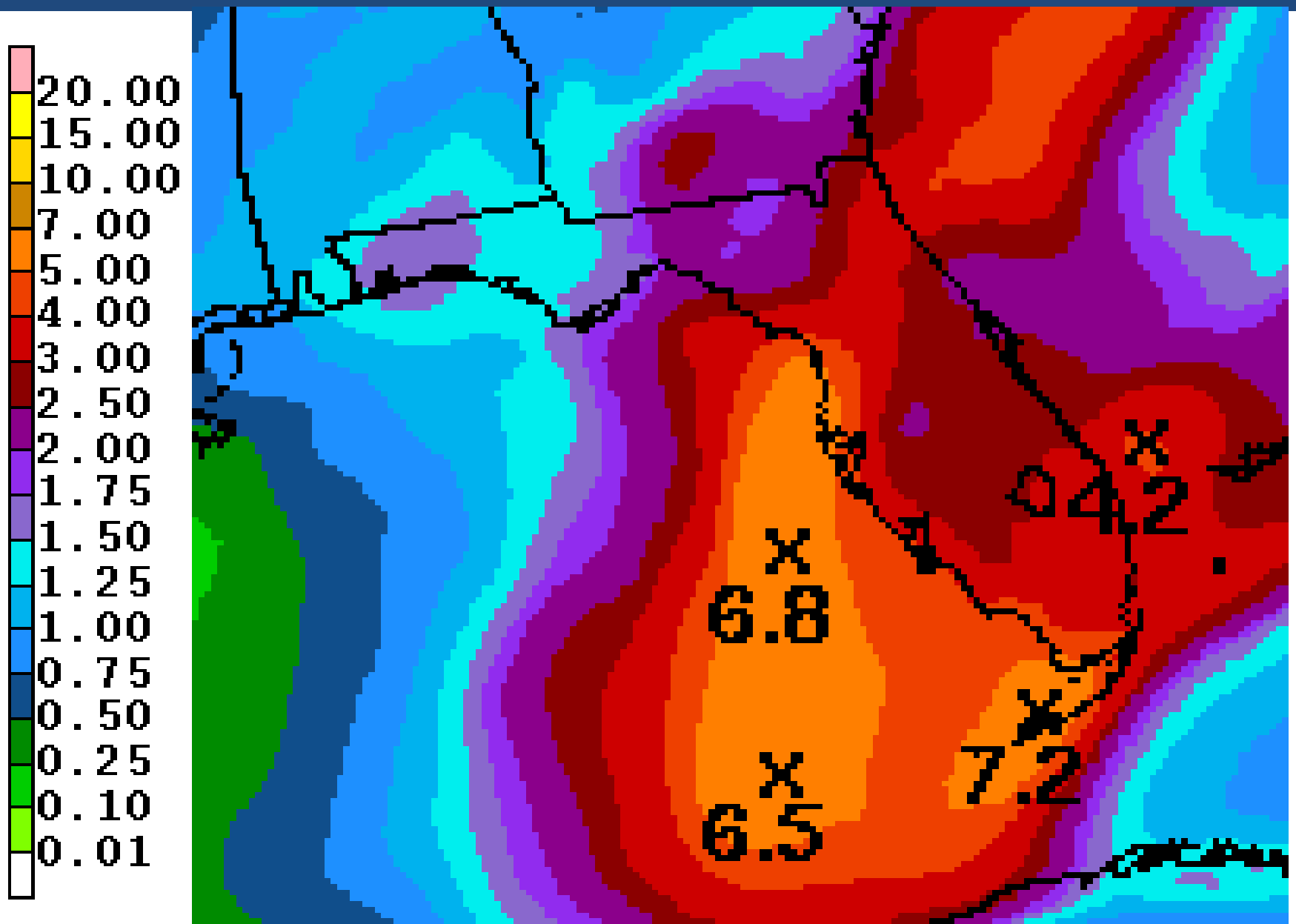
National Weather Service Tallahassee



Forecast Total Rainfall Accumulations for next 3 Days

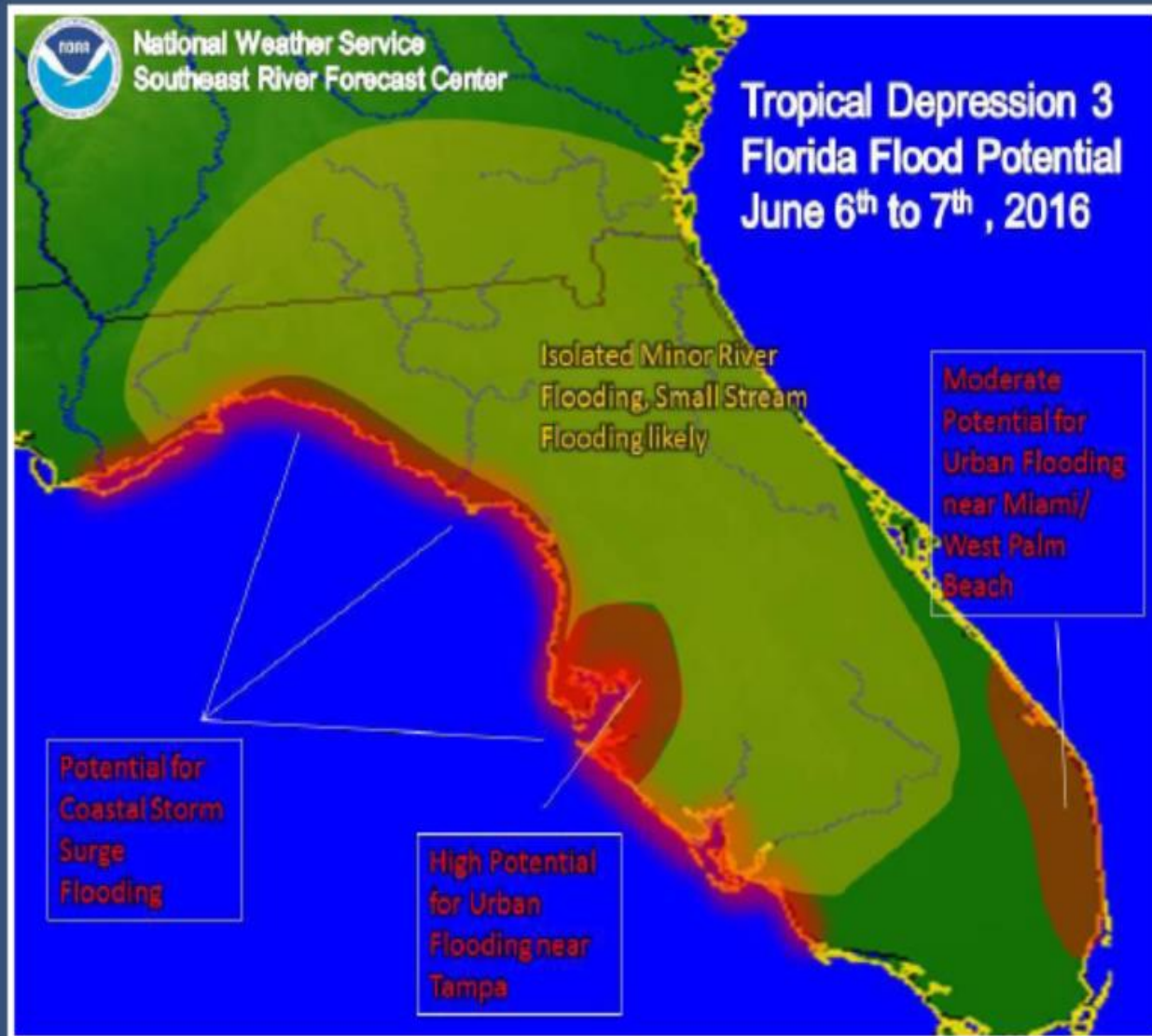


Forecast Total Rainfall Accumulations for next 7 Days



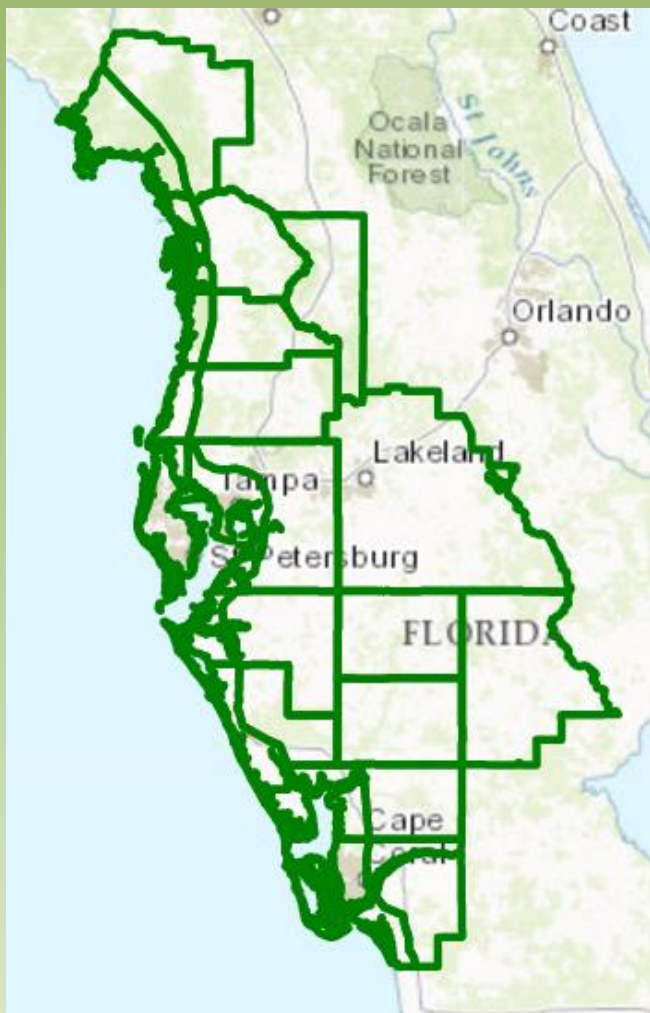


Florida Flood Threat



- 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.

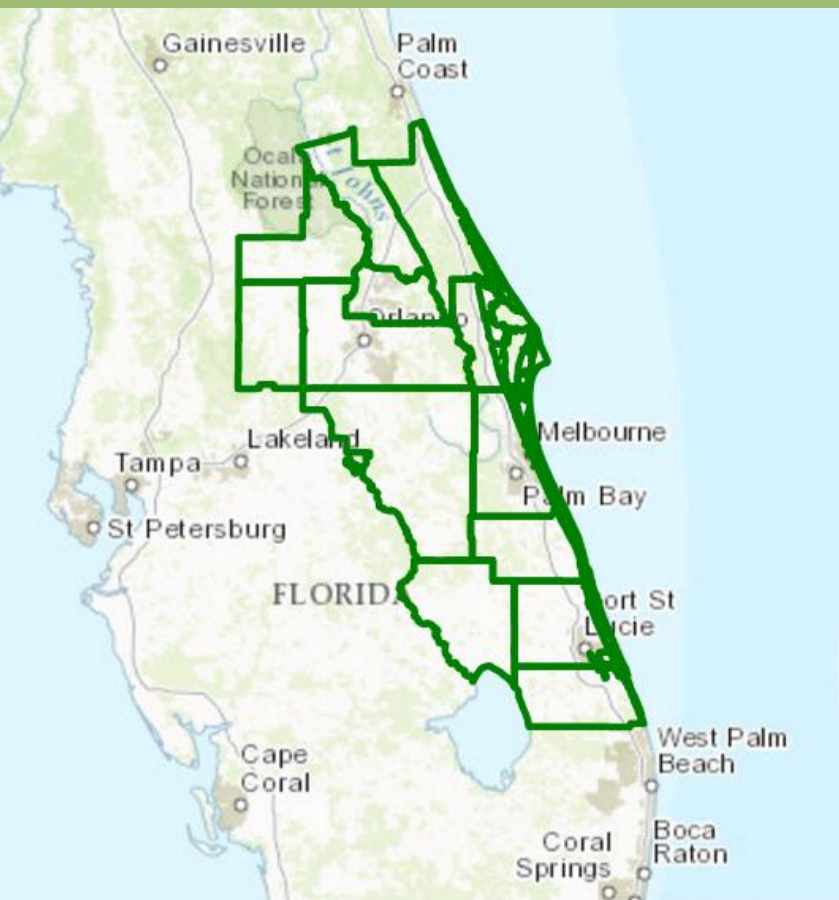
Flood Watch until midnight Monday Night



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.

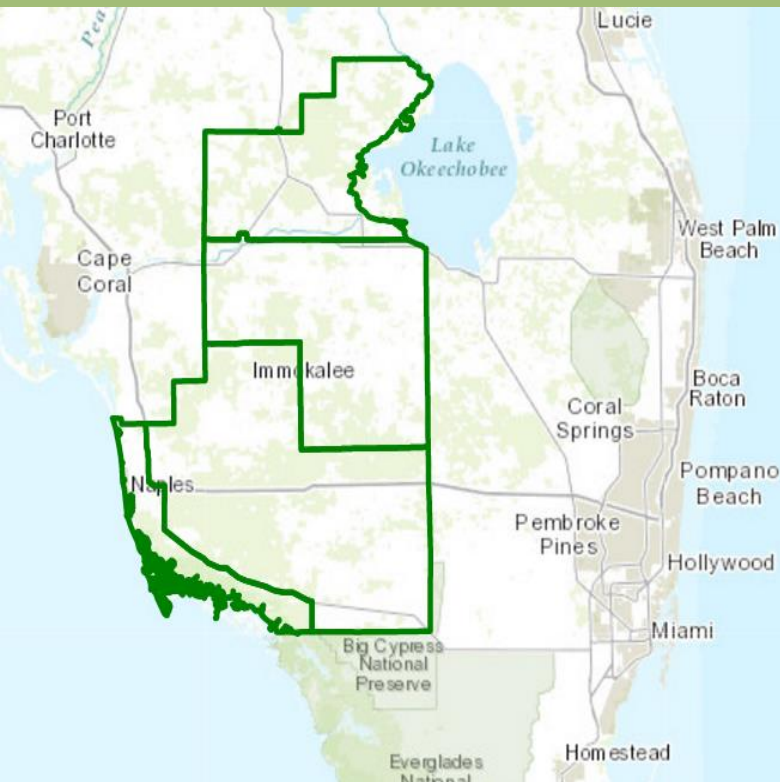
Flood Watch until midnight Monday



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>
--	--	--	--	---	--



How is a flash flood different from a standard flood?

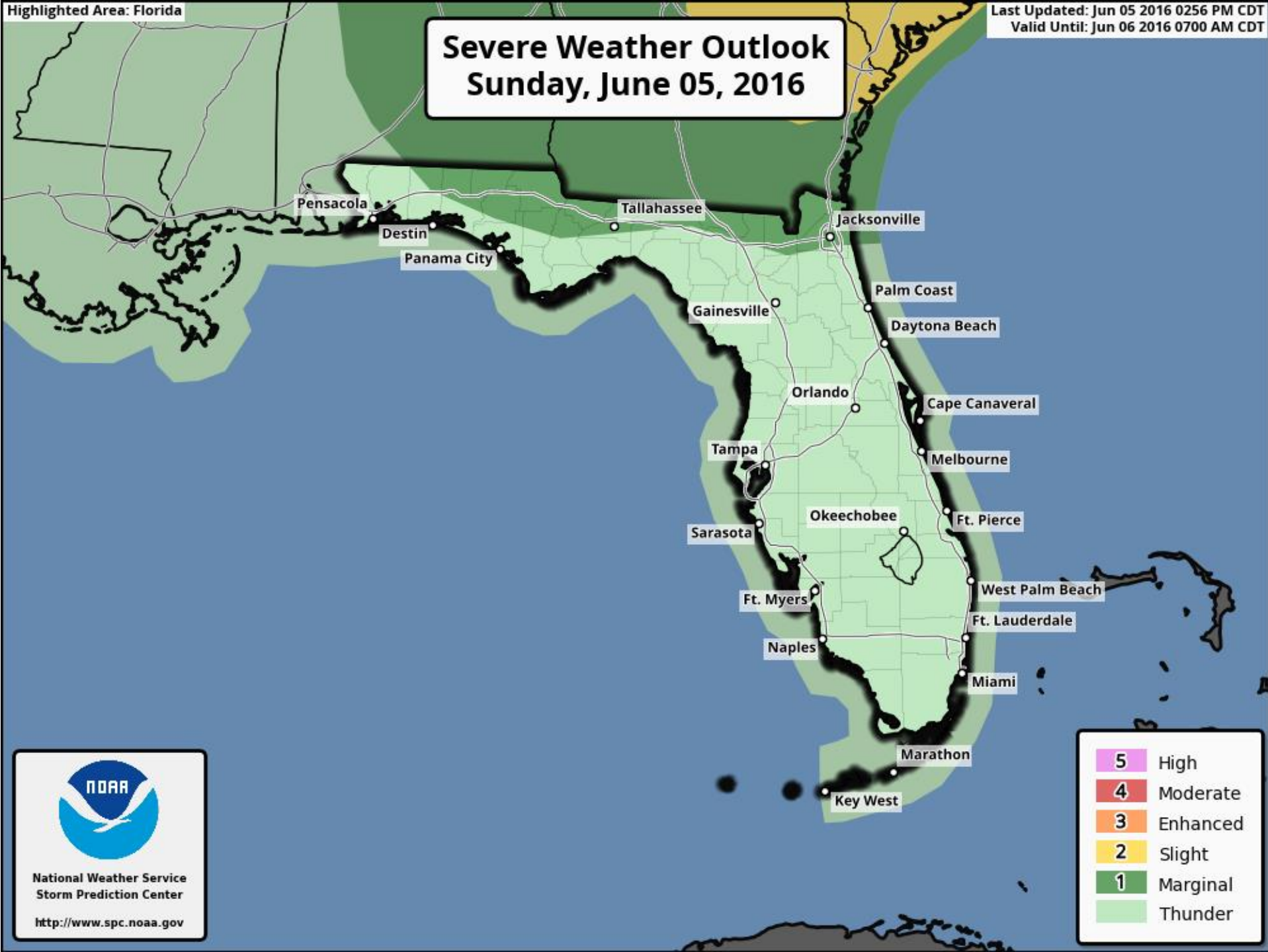
Flash floods are characterized by rapid rise of water on the order of a few minutes to 6 hours that can occur anywhere. A flood watch or warning pertains to larger streams and rivers that take much longer to respond (3 hours to weeks) but move much larger amounts of water through sensitive areas

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



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

Severe Weather Outlook Sunday, June 05, 2016

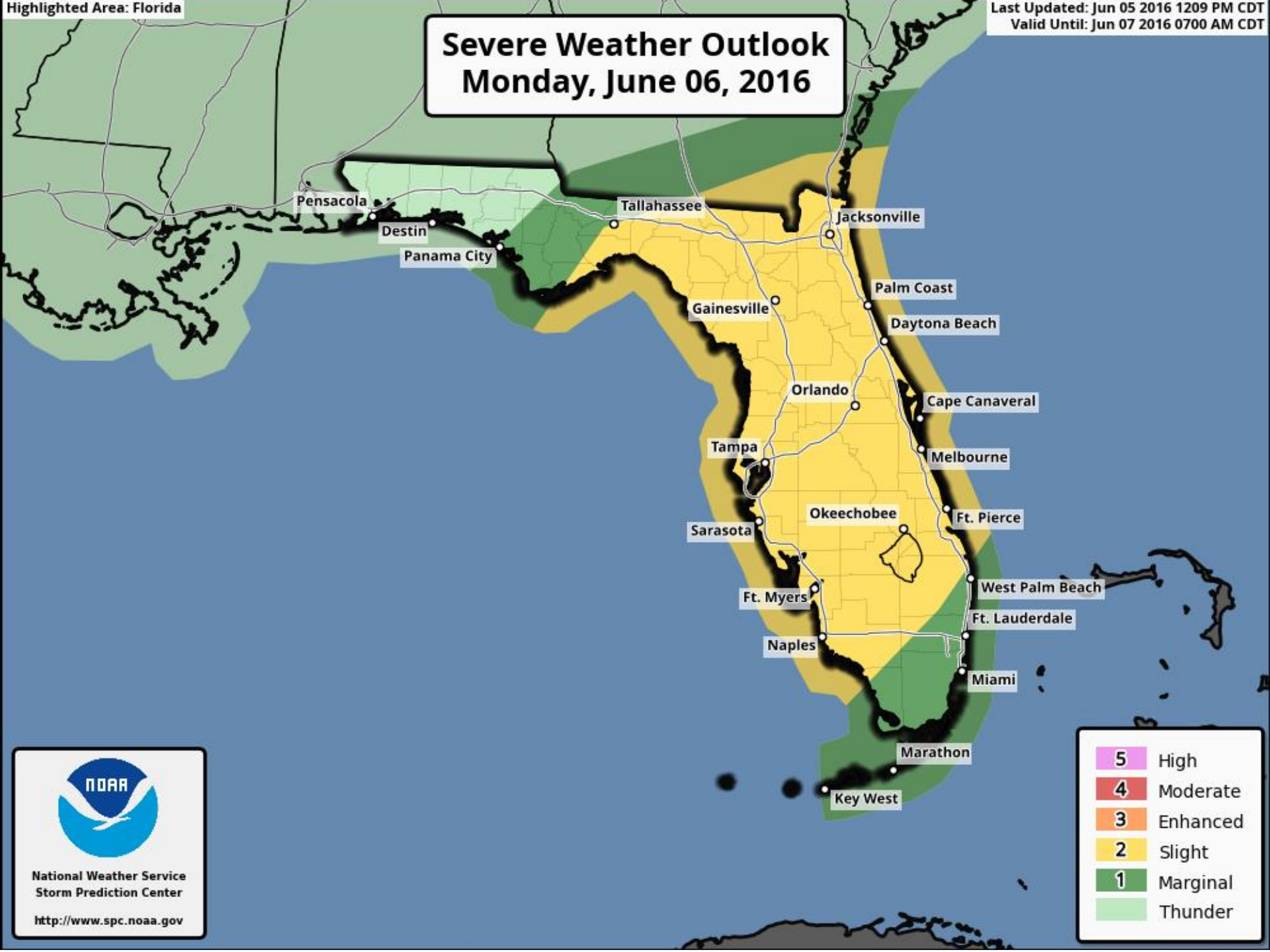


National Weather Service
Storm Prediction Center

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

5	High
4	Moderate
3	Enhanced
2	Slight
1	Marginal
	Thunder

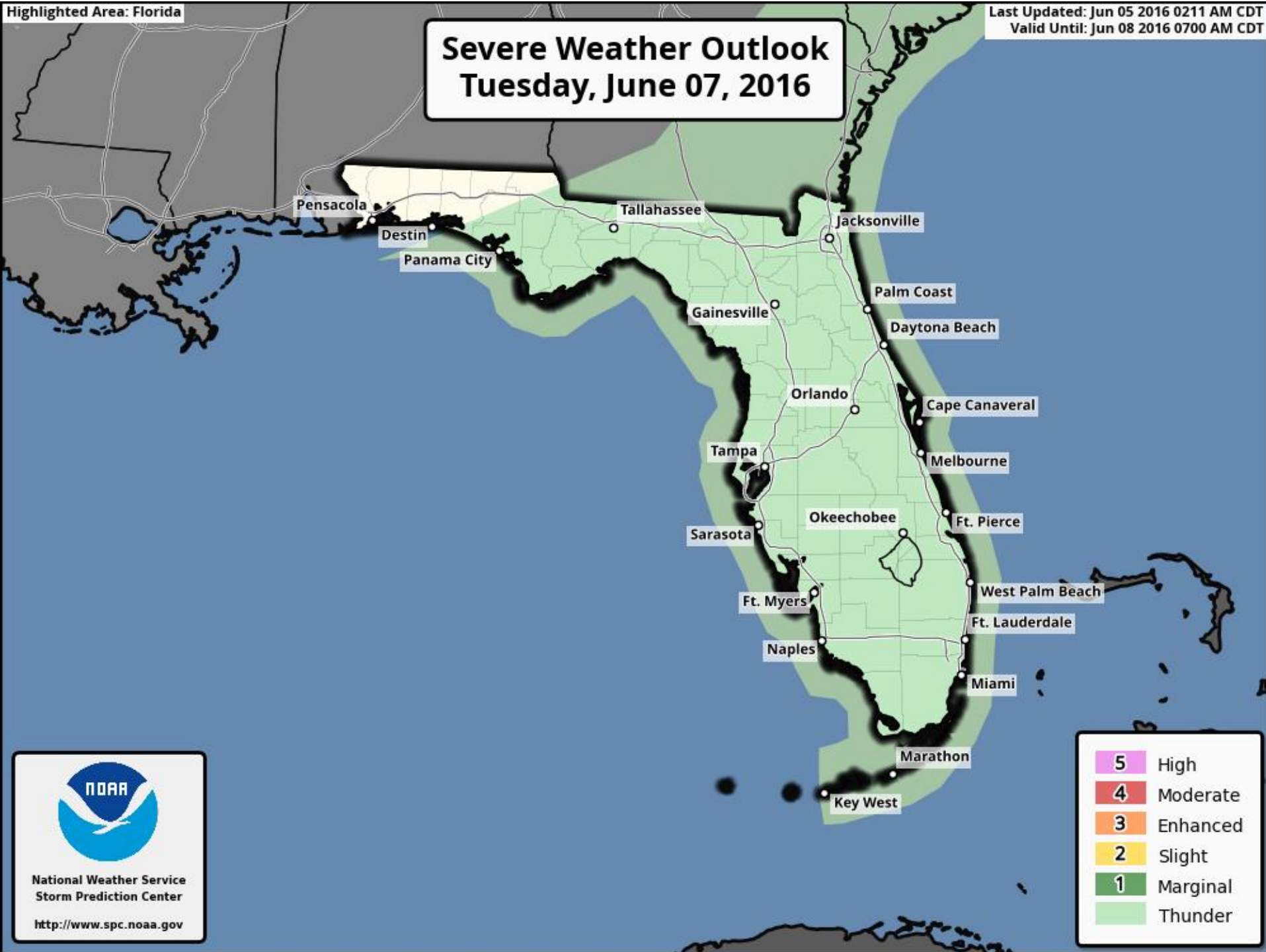
Severe Weather Outlook Monday, June 06, 2016



National Weather Service
Storm Prediction Center

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






Severe Weather Outlook Tuesday, June 07, 2016



National Weather Service
Storm Prediction Center

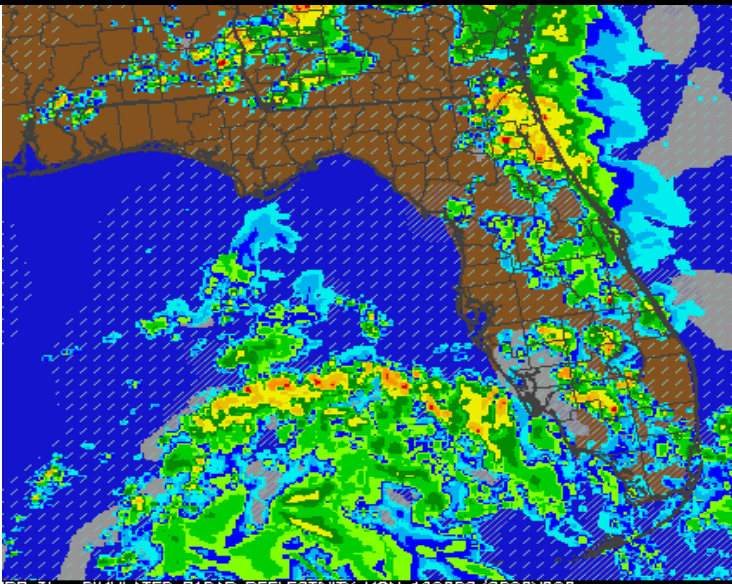
<http://www.spc.noaa.gov>

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

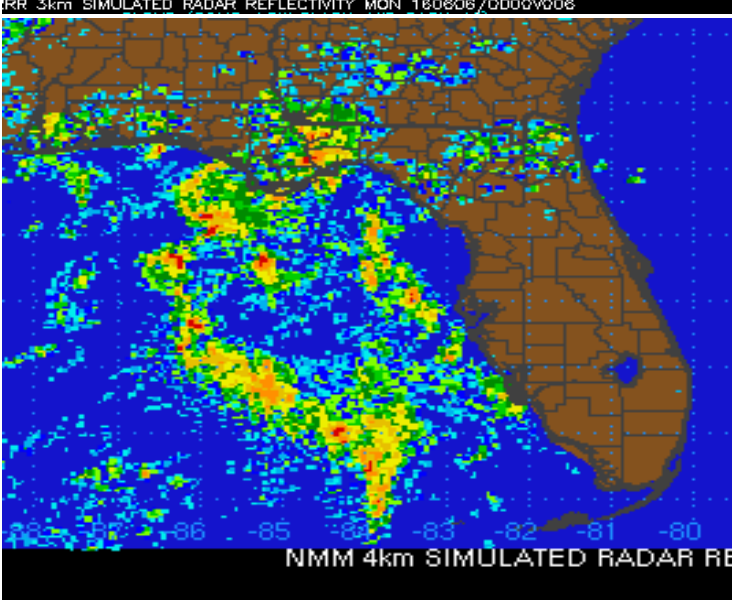
* NWS defines a severe thunderstorm as measured wind gusts to at least 58 mph, and/or hail to at least one inch in diameter, and/or a tornado. All thunderstorm categories imply lightning and the potential for flooding. Categories are also tied to the probability of a severe weather event within 25 miles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

Model Forecast “Future” Radar



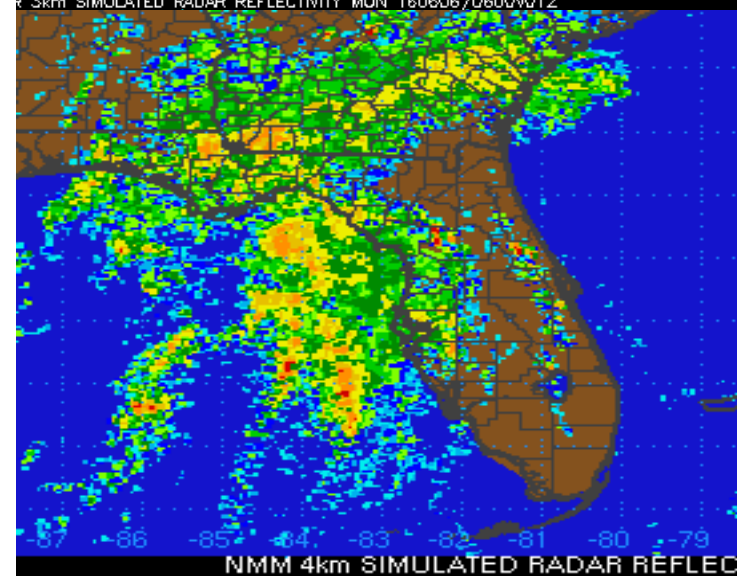
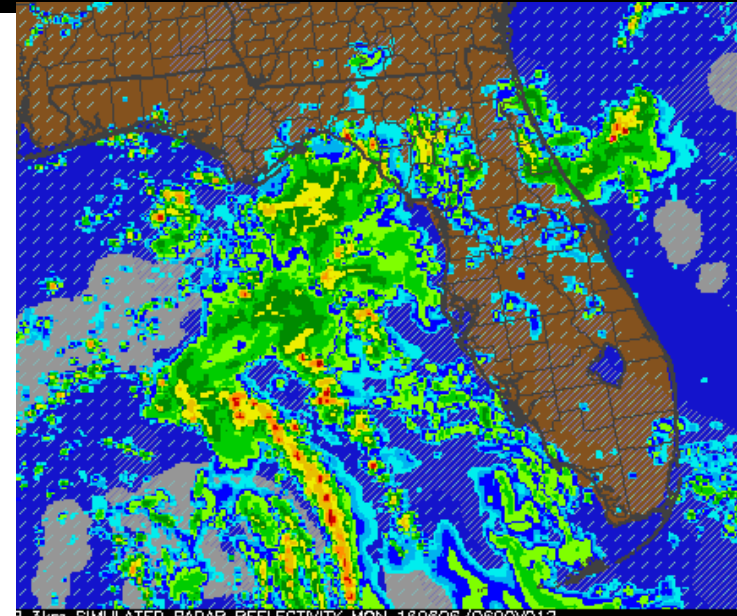
Sunday
8pm

Monday
2am



Monday
9am

Monday
2pm



Summary:

- At 11 AM EDT Sunday, satellite and surface observations indicated that Tropical Depression #3 formed near the northern coast of the Yucatan Peninsula in the southern Gulf of Mexico.
- At 530pm EDT Sunday, T.D. #3 was upgraded to Tropical Storm Colin based on observations from Hurricane Hunter reconnaissance aircraft.
- At 5pm EDT, T.S. Colin was located in the southern Gulf of Mexico about 475 miles south-southwest of Apalachicola, or about 465 miles southwest of Tampa.
- Maximum sustained winds have increased to 40 mph with higher gusts, and some additional strengthening is predicted.
- There is still some uncertainty in regards to the eventual strength of this system. Most models, along with the official NHC forecast, predict weak tropical storm status prior to moving across the Florida Peninsula. However, some models have the system at tropical depression status while others show the potential for a stronger tropical storm in the Gulf.
- Tropical Storm Colin is currently moving north at 12 mph, but a turn to the northeast is expected within the next 24 hours. Forecast track models remain fairly consistent, with a Florida impact Monday into Tuesday and a potential landfall point in the Big Bend or northern Nature Coast.

Continued on next slide...

Florida Outlook:

- Portions of the Florida Big Bend and northern Florida Peninsula are within the 3 day track cone of error. 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. This includes the counties of Franklin, Wakulla, Jefferson, Taylor, Dixie, Levy, Citrus, Hernando, Pasco, Pinellas, Hillsborough, Manatee and Sarasota. **Tropical Storm Watches** have been issued for the East Coast counties of Flagler, St. Johns, Duval and Nassau.
- Current timing suggests bands of thunderstorms could be felt in the Keys and Southwest Florida as early as tonight, spreading north along the Gulf Coast throughout Monday morning and affecting the Florida Peninsula and Panhandle through Tuesday afternoon.
- 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 Central and Southwest Florida.
- Severe thunderstorms with damaging winds are possible across North Florida today as a result of the frontal system, with additional severe weather possible, including isolated tornadoes, on Monday across the Peninsula and eastern Panhandle. SPC has placed these areas in a "**marginal**" to "**slight**" threat for severe weather through Tuesday morning.
- The greatest chance for receiving sustained tropical storm force winds will be mainly coastal locations in the warning area. Inland wind warnings are in effect for Franklin, Wakulla, Taylor, Dixie, Levy, Citrus, Hernando, Pasco and Hillsborough Counties.
- In addition, increased wave heights are expected along the Gulf Coast, leading to an elevated risk of rip currents and possible minor coastal flooding and erosion. Increased waves are also expected along the Atlantic Coast on Tuesday with rip currents expected.

Another briefing packet will be issued Monday 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

State Meteorological Support Unit
Florida Division of Emergency
Management

Users wishing to subscribe (approval pending) to this distribution list, register at https://public.govdelivery.com/accounts/FLDEM/subscriber/new?topic_id=SERT_Met_Tropics.

Other reports available for subscription are available at <https://public.govdelivery.com/accounts/FLDEM/subscriber/new?preferences=true>