



TROPICAL UPDATE

5 PM EDT

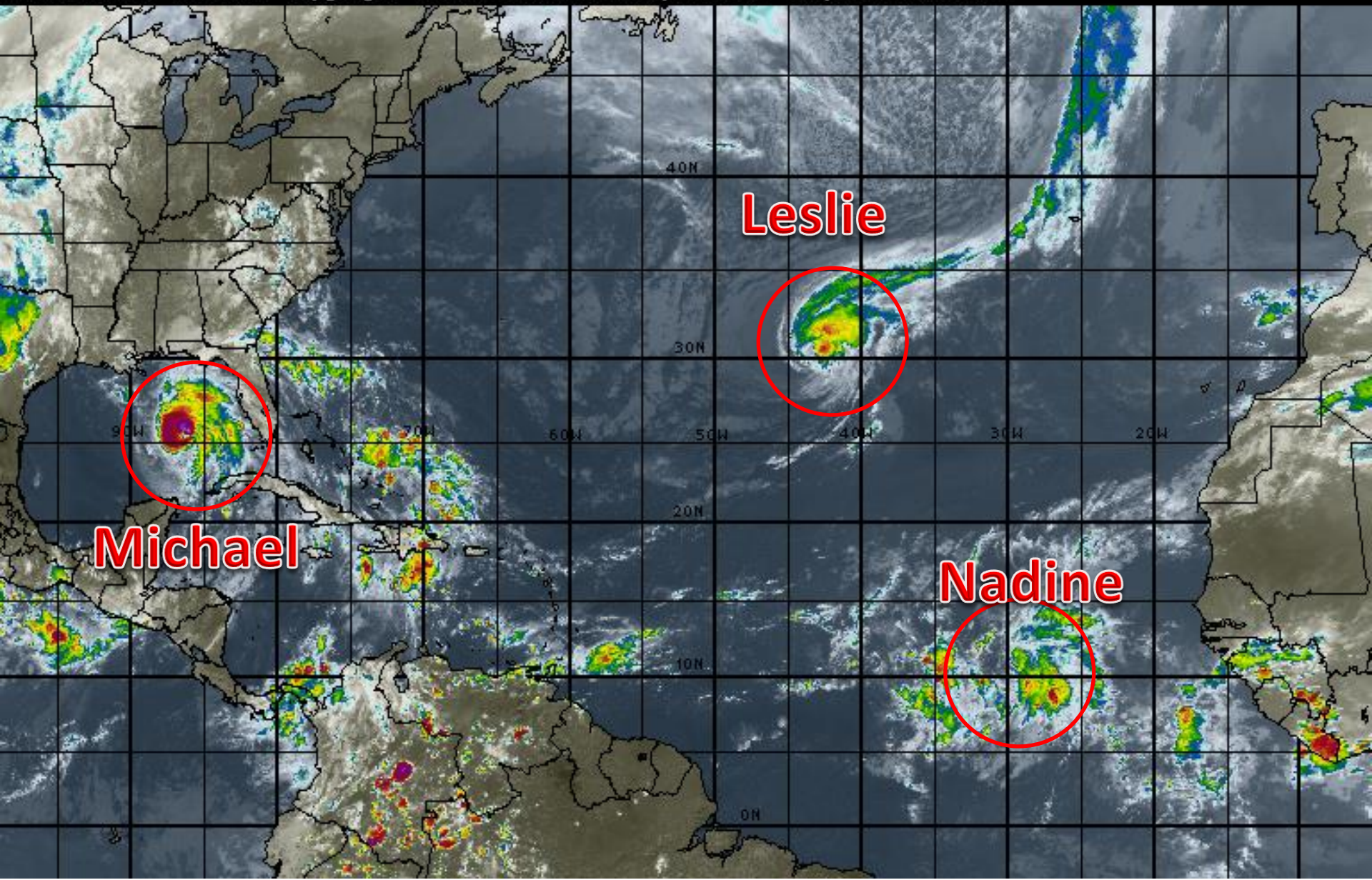
Tuesday, October 9, 2018

**Hurricane Michael, Tropical Storm Leslie &
Tropical Storm Nadine**

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 09-OCT-2018 GMT Copyright © 1998-2018 MSI Corporation <http://www.usi.com>

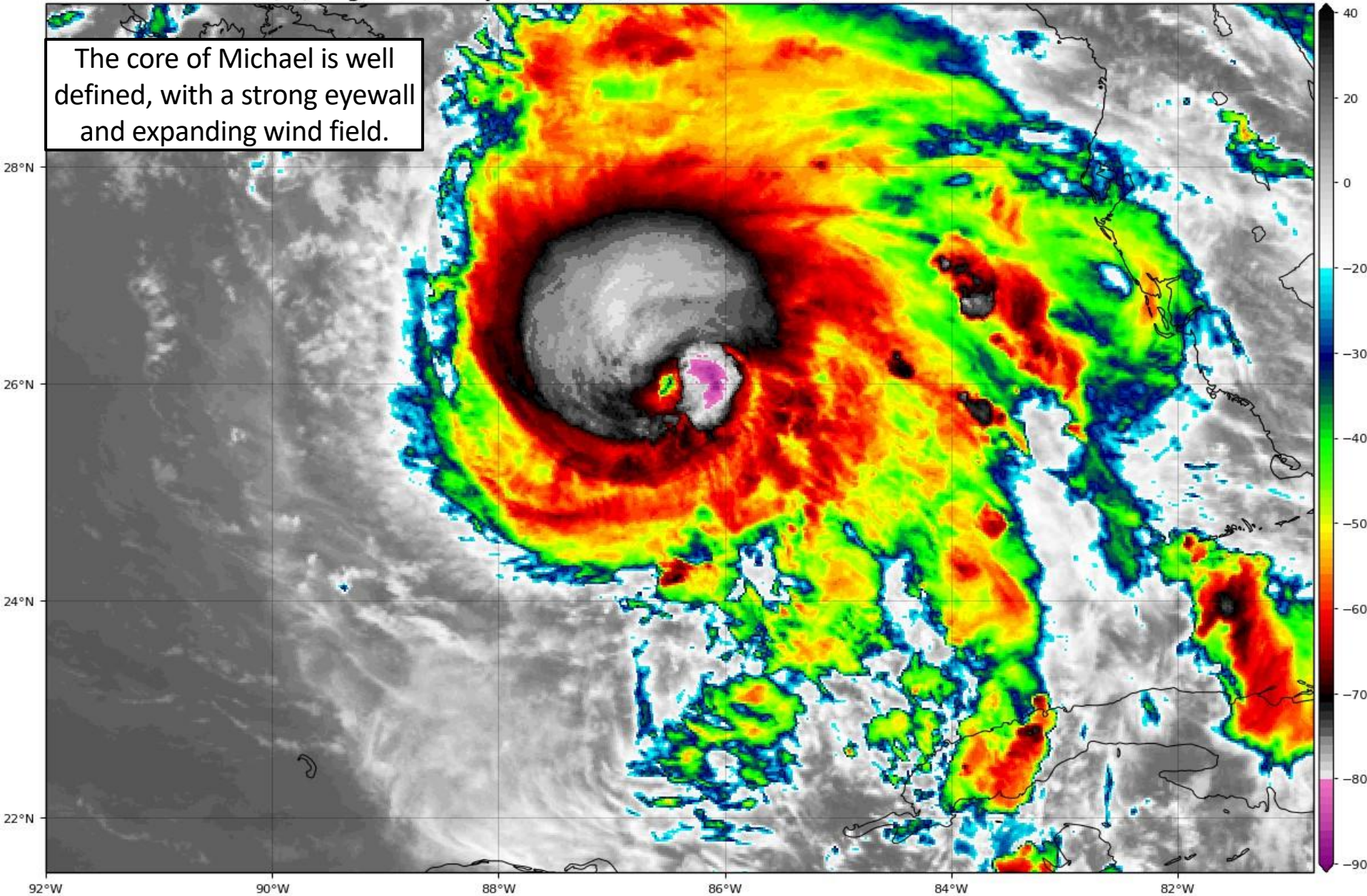


Hurricane Michael Satellite Image

GOES-16 Channel 13 (IR) Brightness Temperature (°C) at 20:08Z Oct 09, 2018

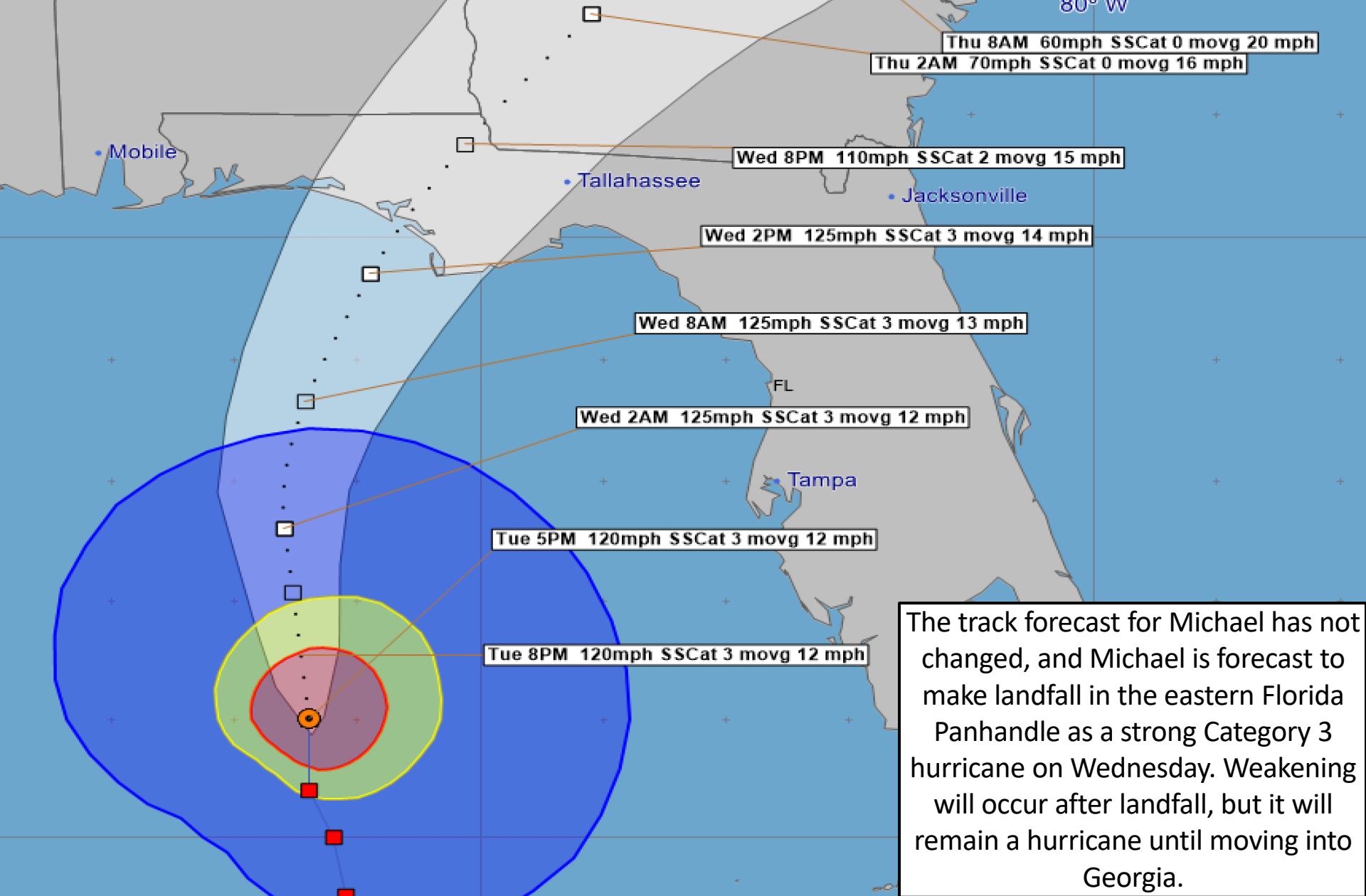
TROPICALTIDBITS.COM

The core of Michael is well defined, with a strong eyewall and expanding wind field.



State Radar as of 5:05 PM EDT Tuesday



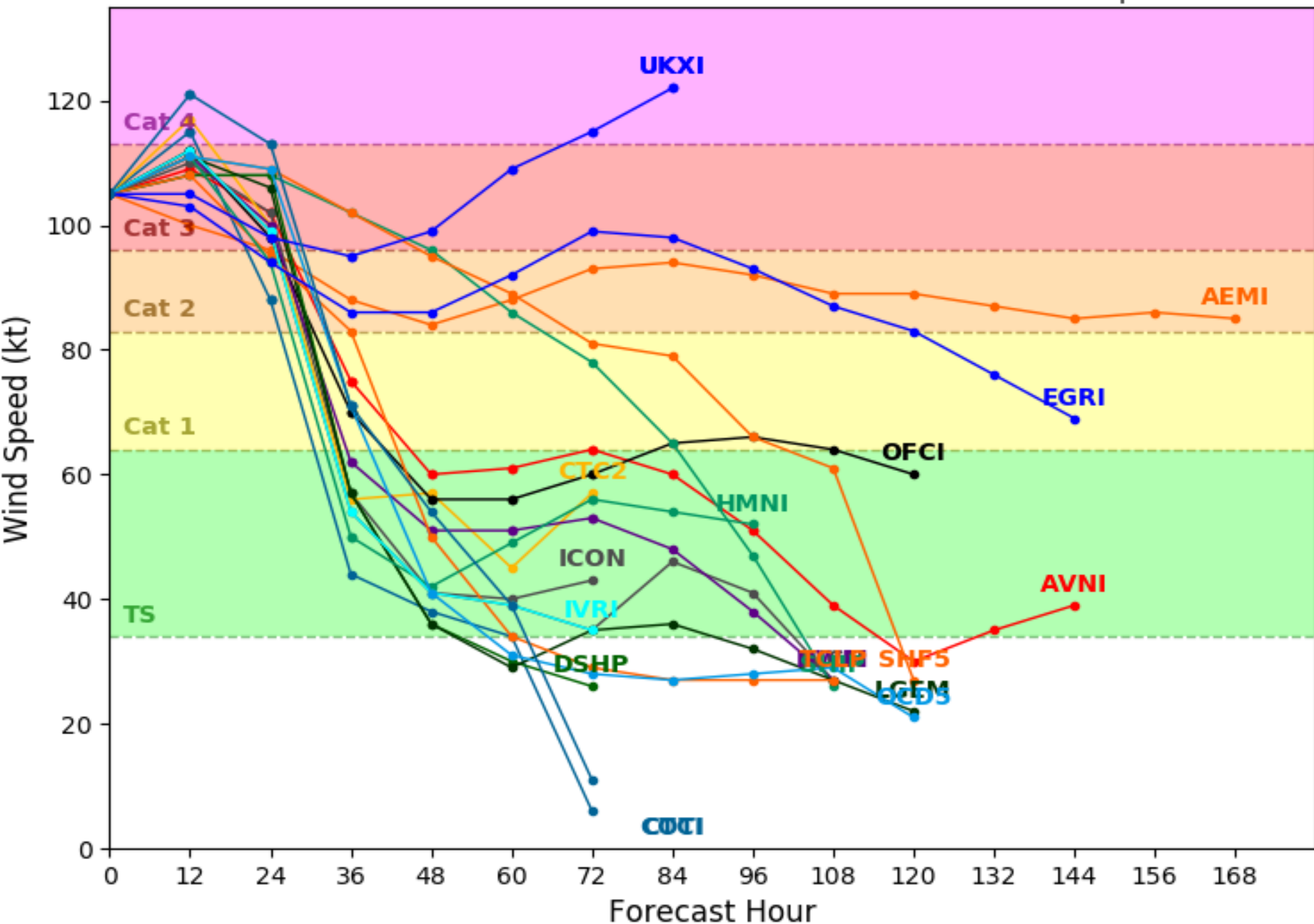


Hurricane Michael - Tuesday, October 9, 2018 5 PM EDT Advisory #13

Center Location: 26 N 86.4 W Maximum Sustained Winds: 120 mph (Cat 3) Movement: 12 mph N

□ forecast positions Potential Track Area: day 1-3 day 4-5 Surface Wind Field: at current location
 Sustained Wind Speeds: tropical storm >= 34kt/39mph strong tropical storm >= 50kt/58mph hurricane >= 64kt/74mph

Levi Cowan - tropicaltidbits.com



HURRICANE MICHAEL

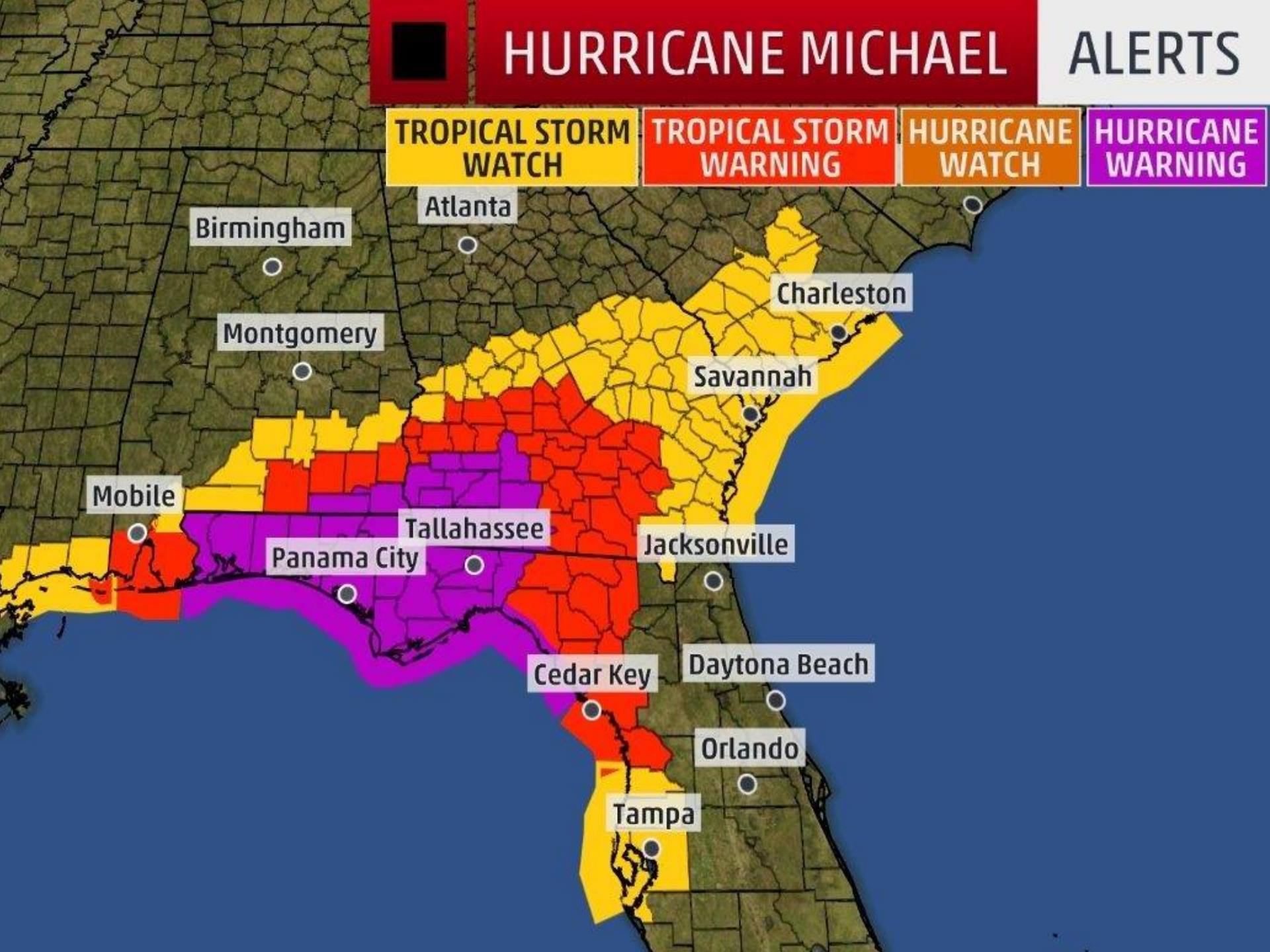
ALERTS

TROPICAL STORM
WATCH

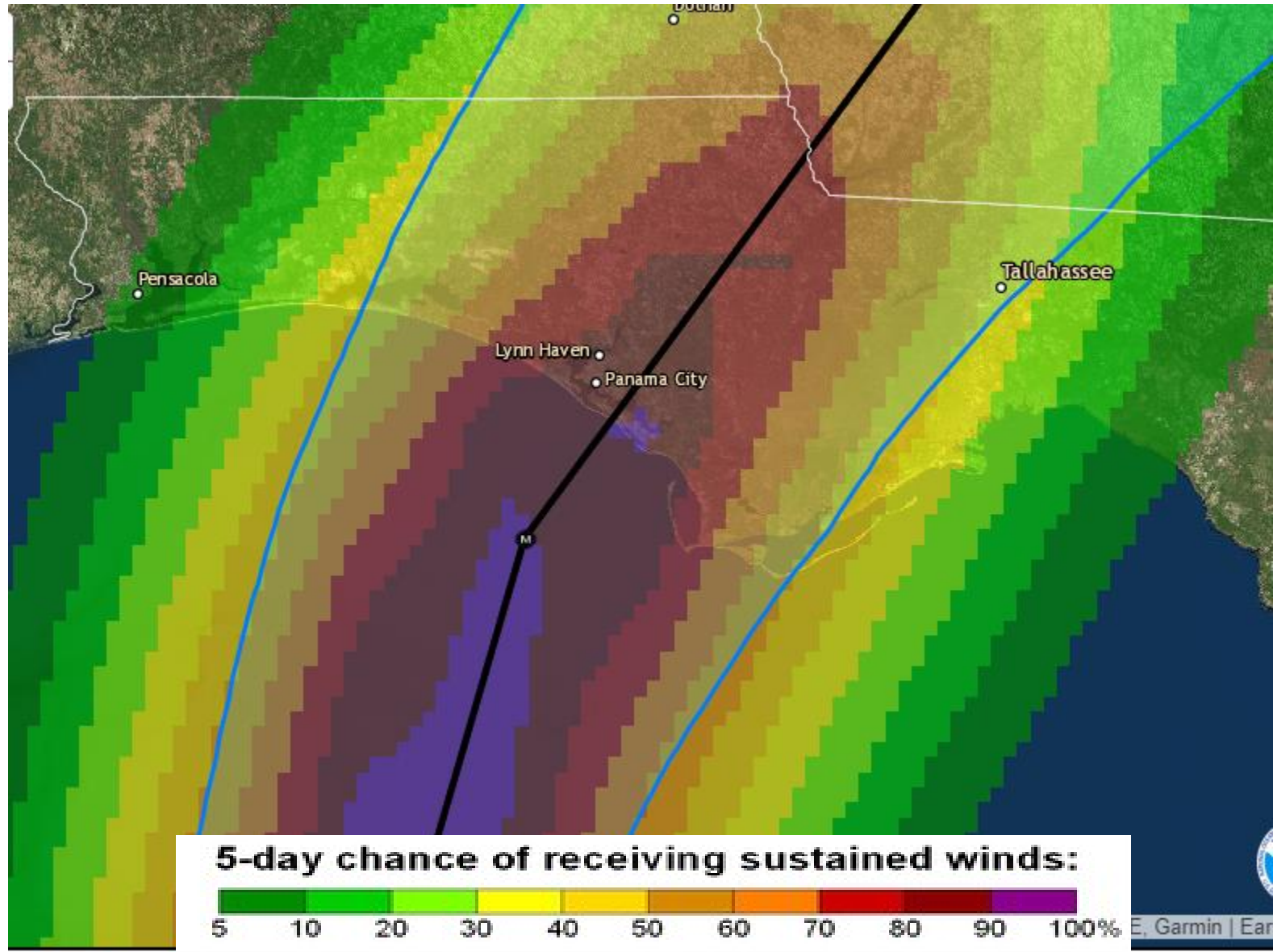
TROPICAL STORM
WARNING

HURRICANE
WATCH

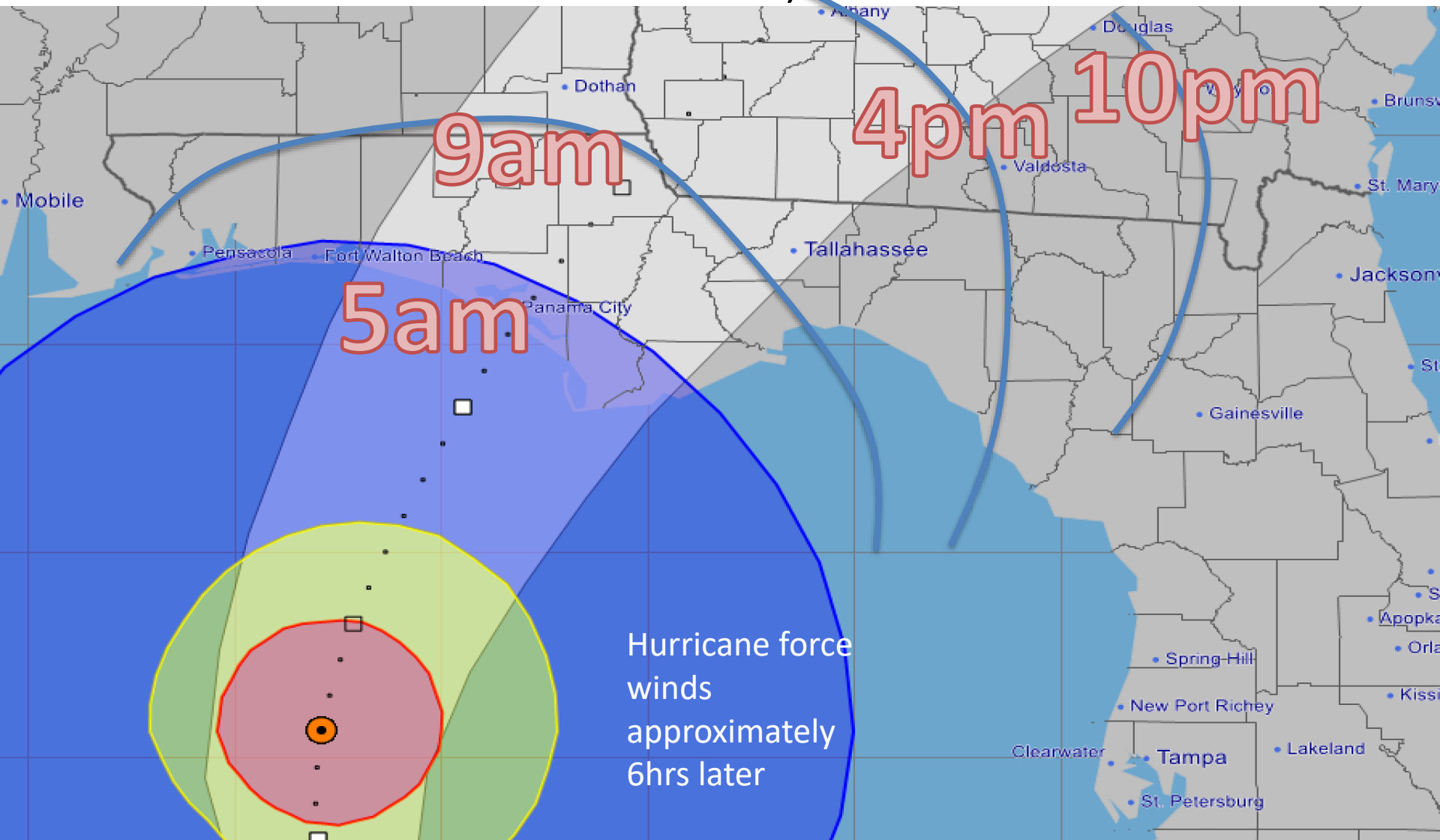
HURRICANE
WARNING



NHC Cone + Chance of Hurricane Force Winds



Hurrevac Timing of onset of TS winds – Wednesday (assumes a perfect forecast)



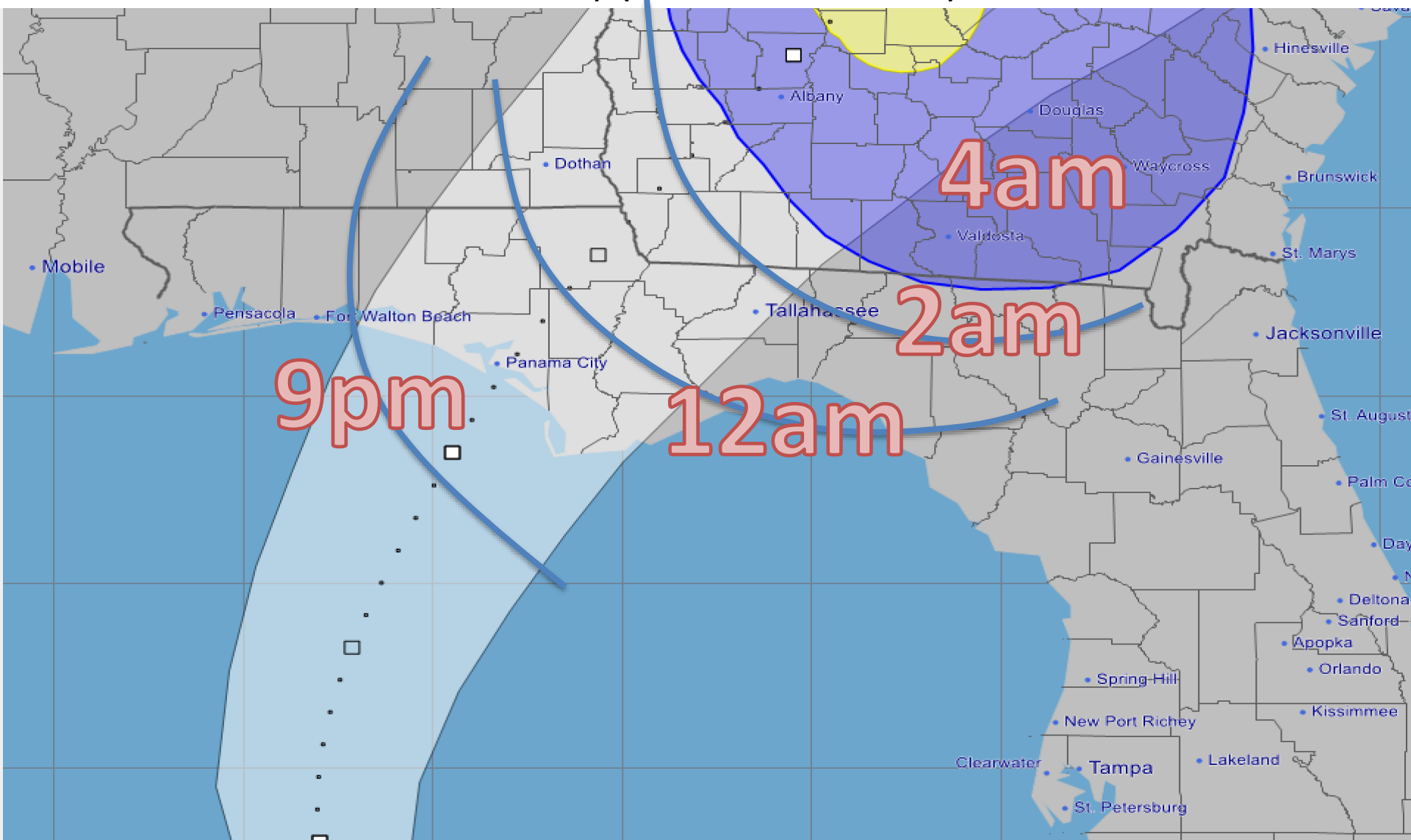
Hurricane Michael - Wednesday, October 10, 2018 5 AM EDT (Fcst Hr 12) Advisory #13

Center Location: 28.1 N 86.6 W Maximum Sustained Winds: 125 mph (Cat 3) Movement: 12 mph N

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 $\geq 64\text{kt}/74\text{mph}$

Hurrevac Timing of onset of TS winds – Wednesday (assumes a perfect forecast) (all times eastern)



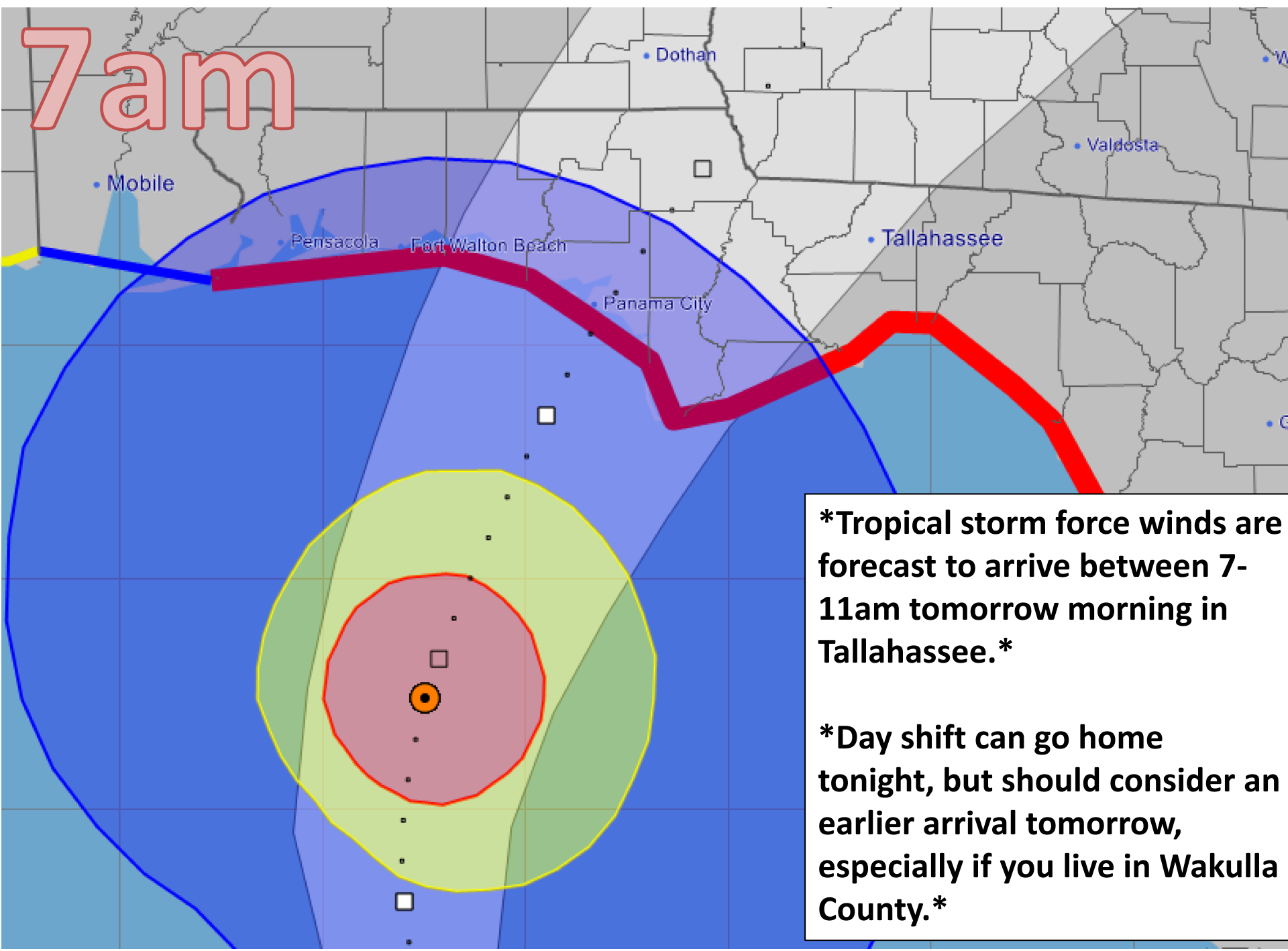
Hurricane Michael - Thursday, October 11, 2018 4 AM EDT (Fcst Hr 35) Advisory #13

Center Location: 32.1 N 83.7 W Maximum Sustained Winds: 65 mph Movement: 17 mph NE

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

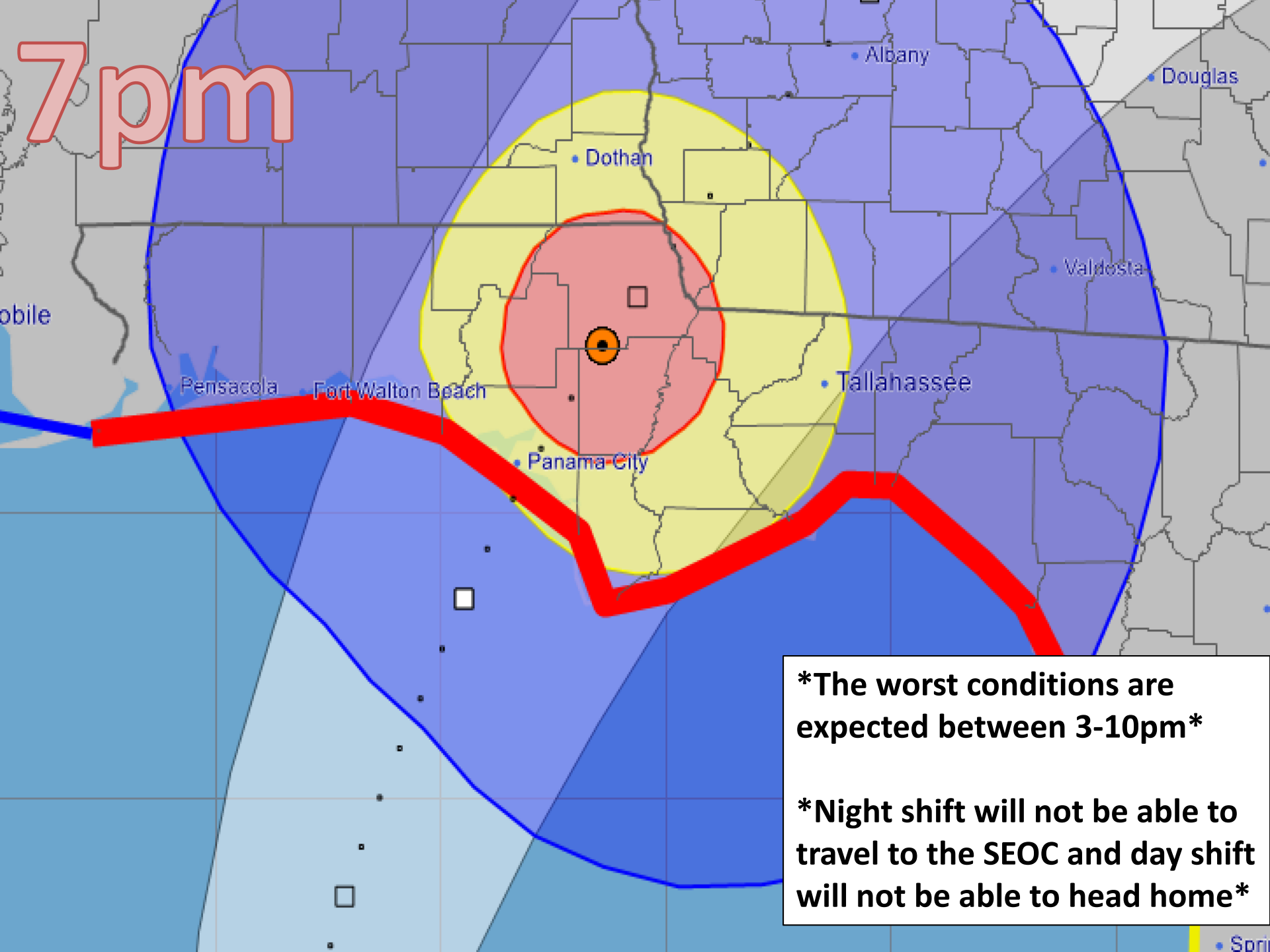
Sustained Wind Speeds: tropical storm ≥ 34 kt/39mph strong tropical storm ≥ 50 kt/58mph hurricane ≥ 64 kt/74mph

7am



Tropical storm force winds are forecast to arrive between 7-11am tomorrow morning in Tallahassee.

Day shift can go home tonight, but should consider an earlier arrival tomorrow, especially if you live in Wakulla County.



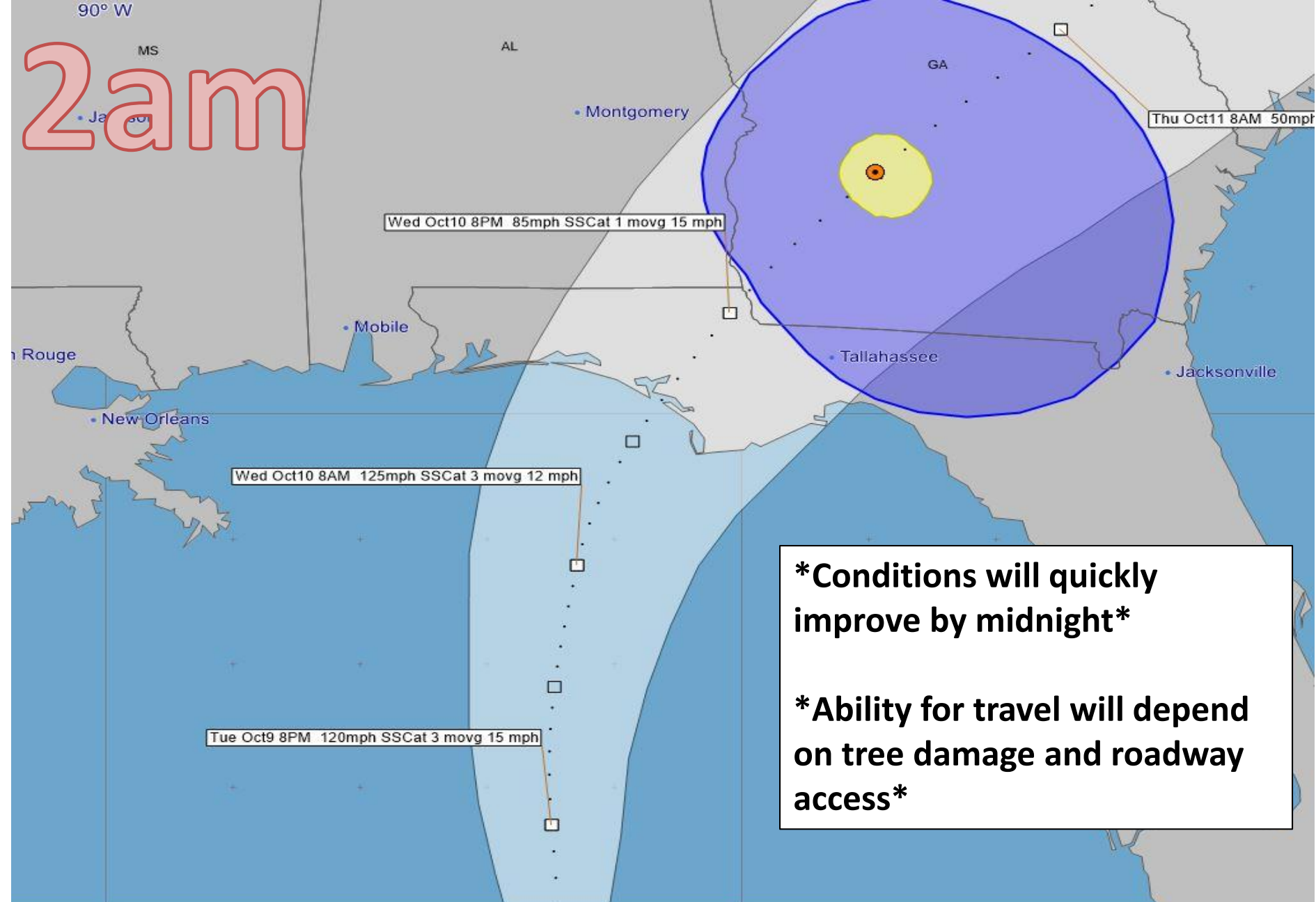
7pm

The worst conditions are expected between 3-10pm

Night shift will not be able to travel to the SEOC and day shift will not be able to head home

90° W

2am



Conditions will quickly improve by midnight

Ability for travel will depend on tree damage and roadway access

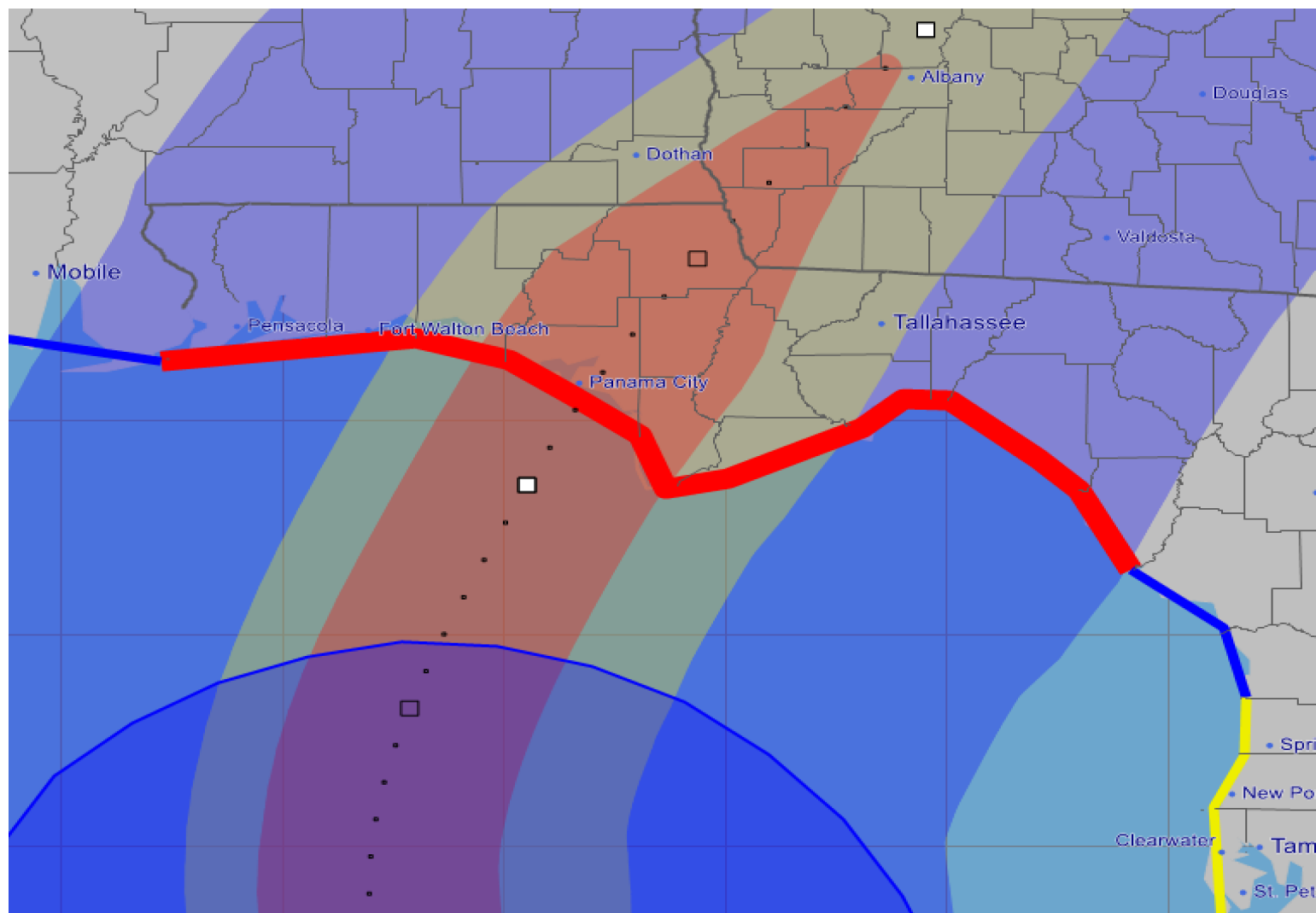
Hurricane Michael - Thursday, October 11, 2018 2 AM EDT (Fcst Hr 36) Advisory #12A

Center Location: 31.9 N 84 W Maximum Sustained Winds: 70 mph Movement: 19 mph NE

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

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

Forecast Cumulative Wind Swath



Hurricane Michael - Tuesday, October 9, 2018 8 PM EDT (Fcst Hr 3) Advisory #13

Center Location: 26.5 N 86.5 W Maximum Sustained Winds: 120 mph (Cat 3) Movement: 12 mph N

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



Potential Peak Wind Gusts during Michael

National Weather Service, Tallahassee, FL

Peak Wind Gust Speed

50 mph to 60 mph

60 mph to 73 mph

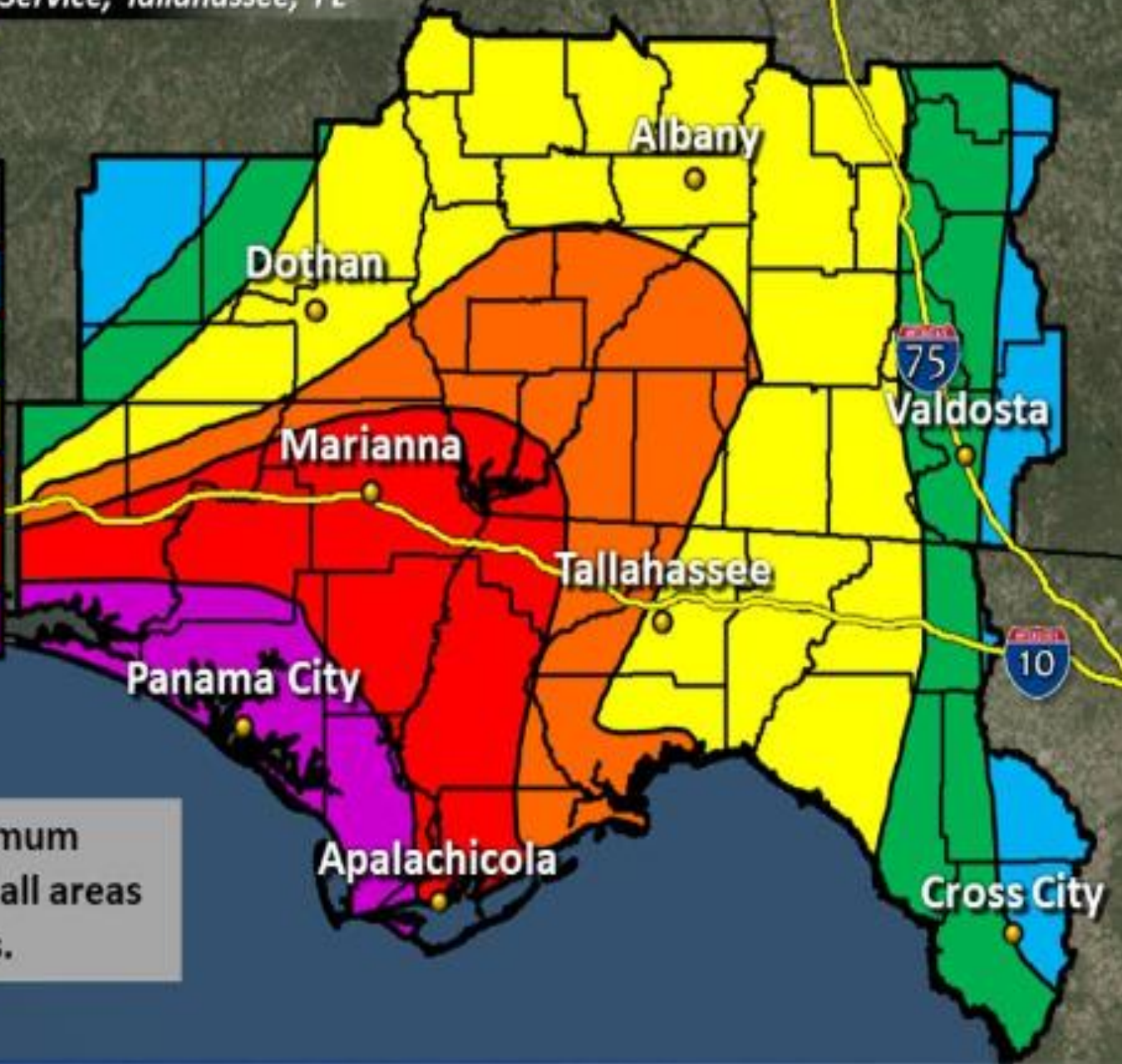
74 mph to 85 mph

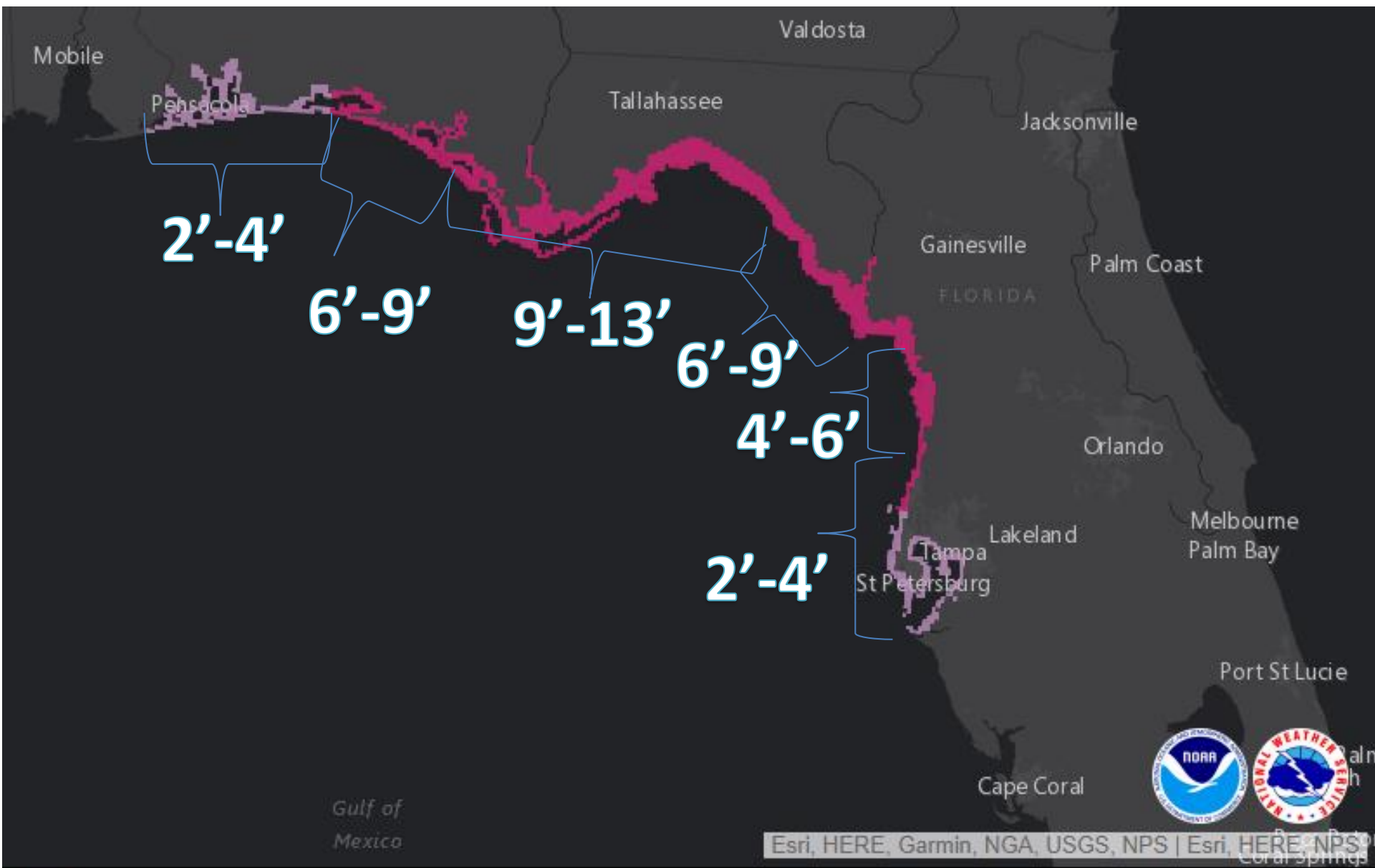
85 mph to 95 mph

95 mph to 110 mph

>110 mph

Note: These are the maximum wind gusts expected. Not all areas will see these peak values.

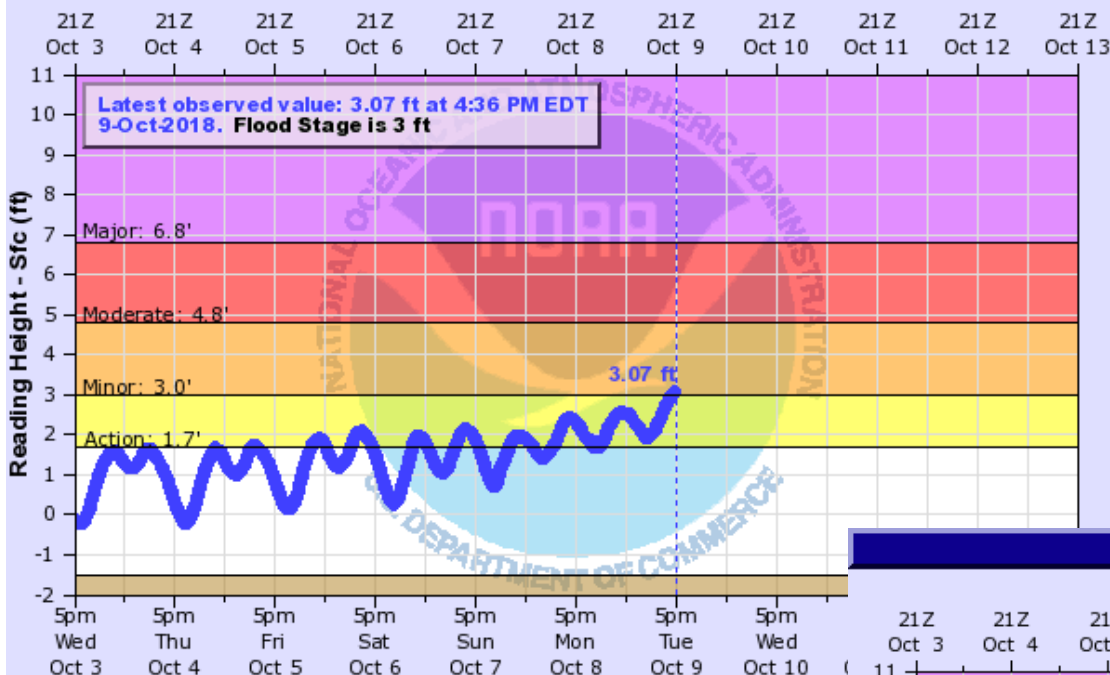




- Storm Surge Warning
- Storm Surge Watch

GULF OF MEXICO TIDE GAUGE AT APALACHICOLA

Universal Time (UTC)



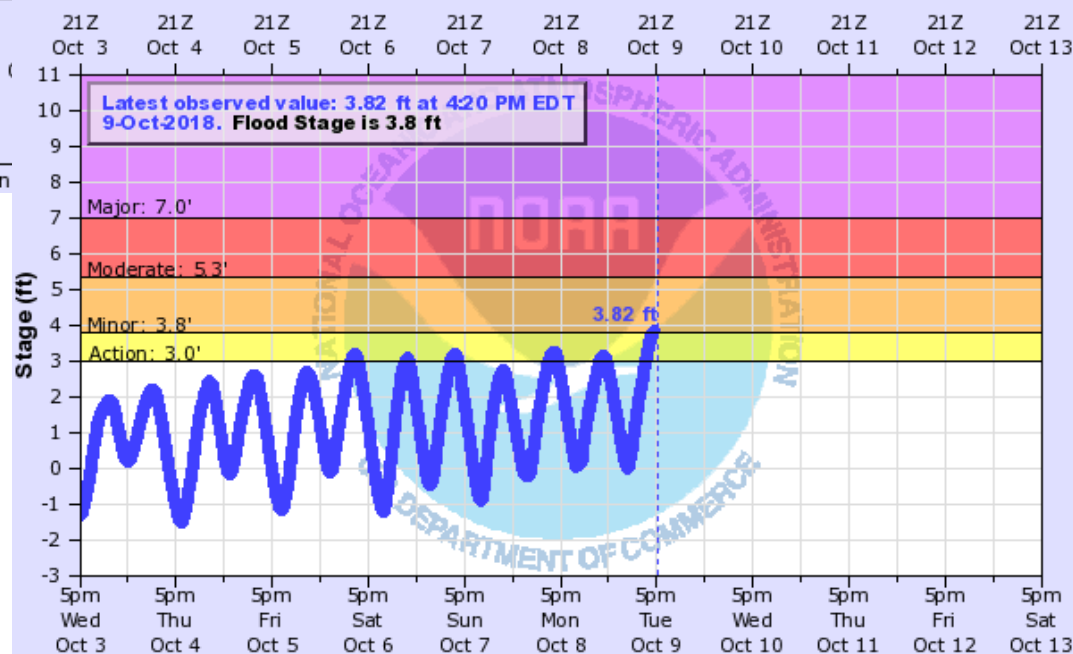
Site Time (EDT)

--- Graph Created (5:21PM Oct 9, 2018) --- Observed

APCF1(plotting HAIRG) "Gage 0" Datum: 0' Observations courtesy of Nation

ST. MARKS RIVER AT ST. MARKS

Universal Time (UTC)

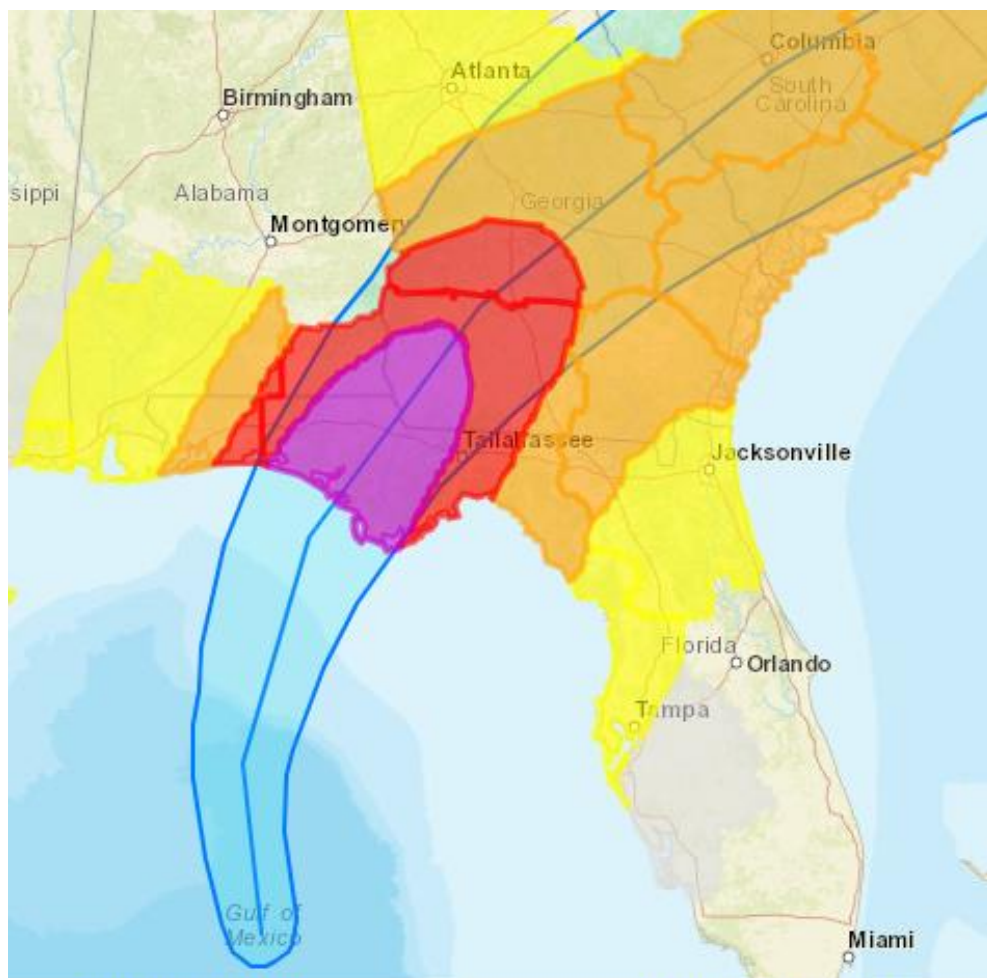


Site Time (EDT)

--- Graph Created (5:21PM Oct 9, 2018) --- Observed

MRKF1(plotting HGIRG) "Gage 0" Datum: 0'

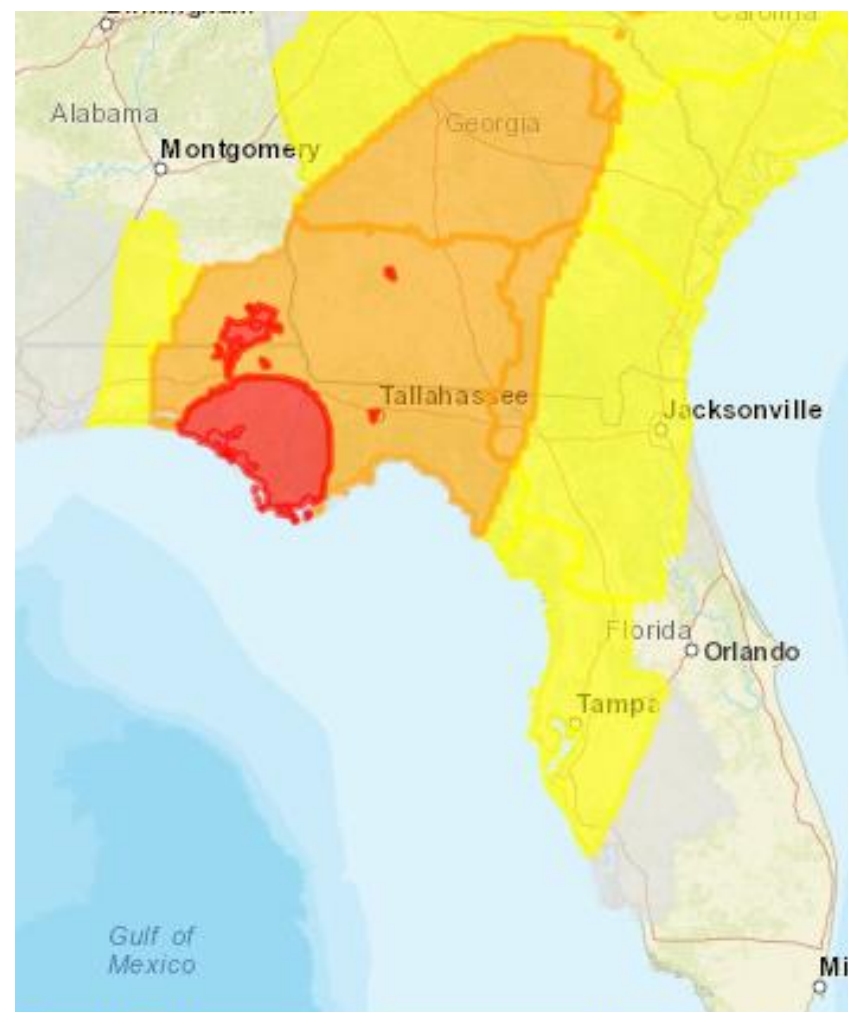
Observations courtesy of NFWFMD



[\[Download KML\]](#)

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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

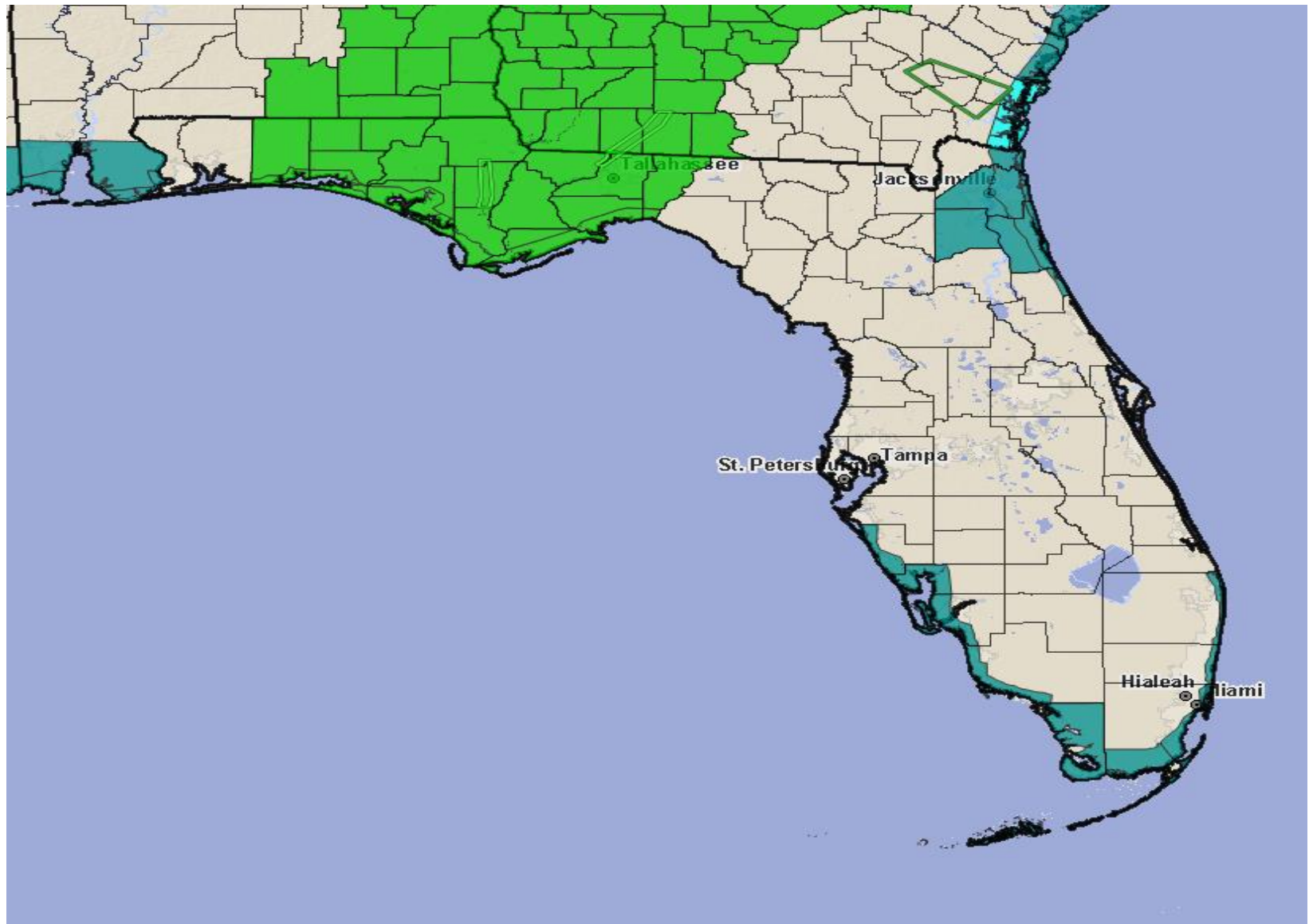


[\[Download KML\]](#)

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Flooding Rain Threat
Potential for extreme flooding rain
Potential for major flooding rain
Potential for moderate flooding rain
Potential for localized flooding rain
Little to no potential for flooding rain

Flash Flood Watch in effect (light green)



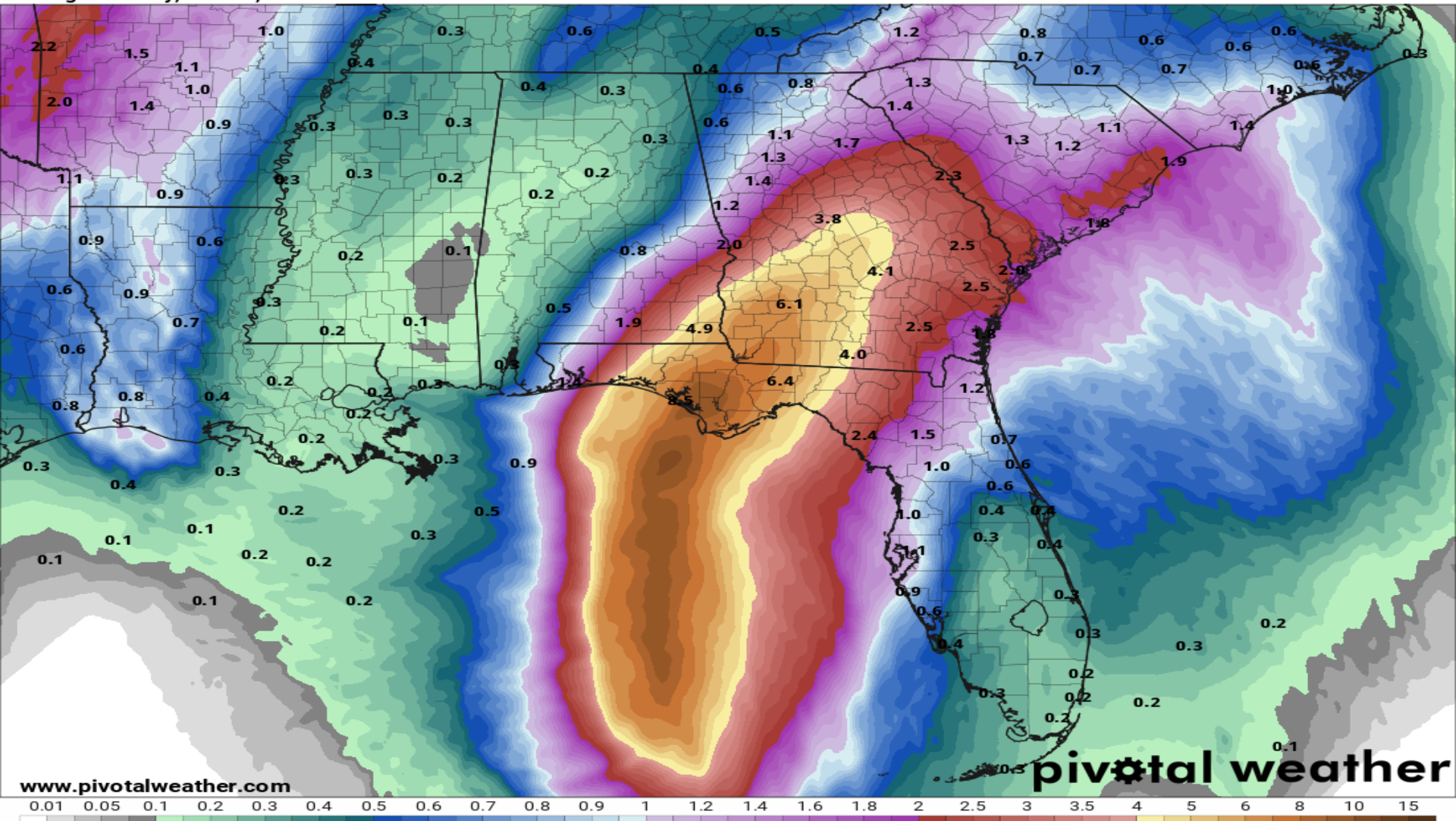
Forecast Cumulative Rain Totals – Next 48 Hours

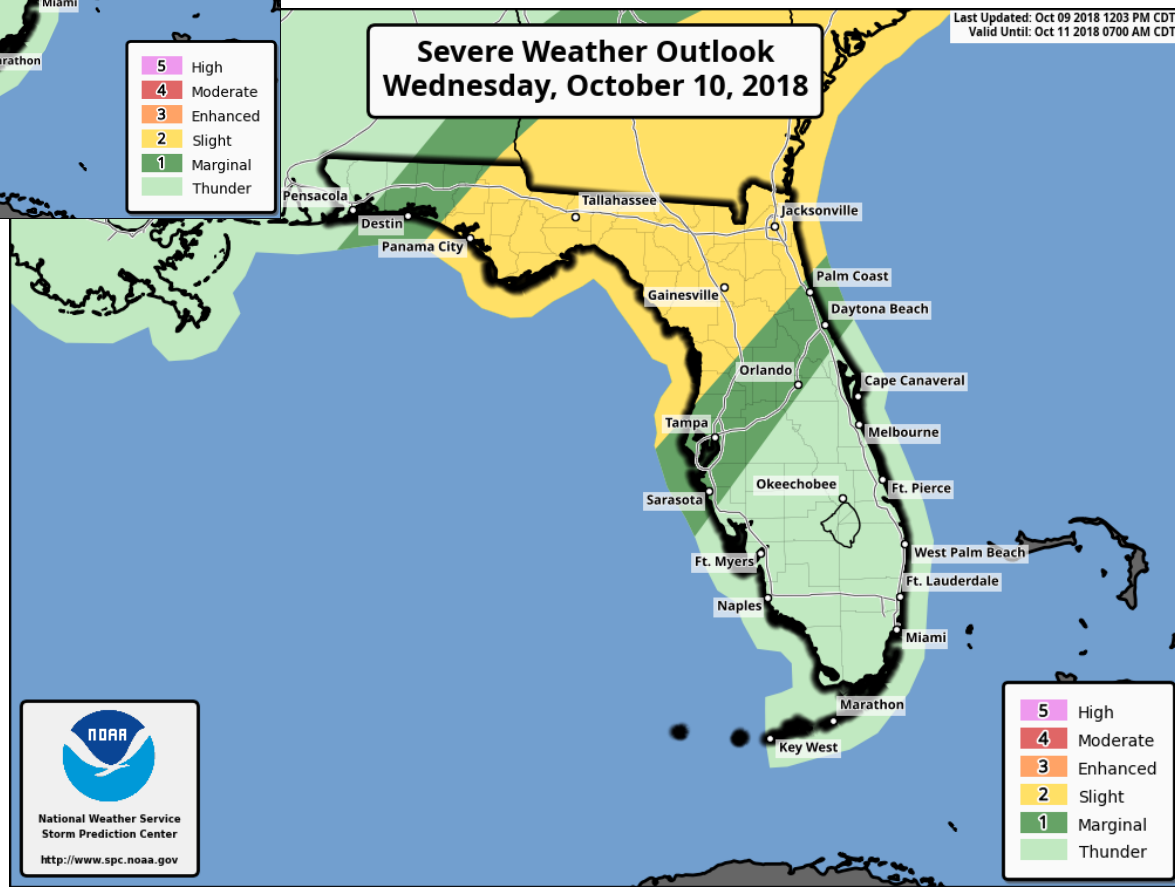
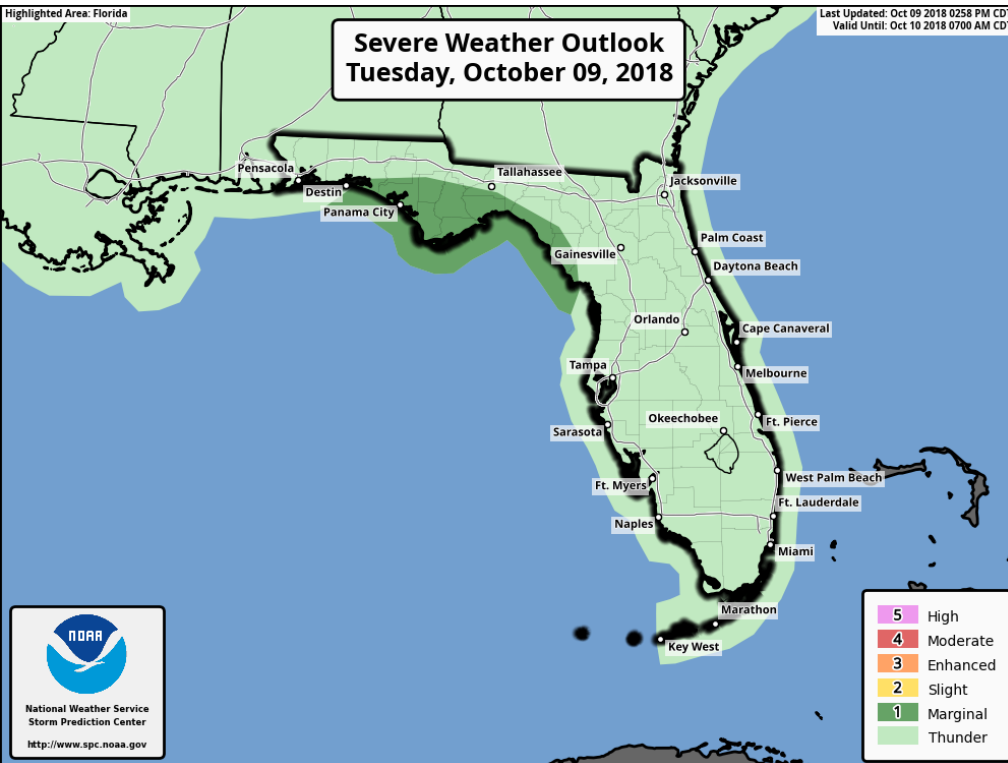
Rain bands will begin impacting parts of the Panhandle, Big Bend, and West Coast today. Rain totals will be maximized east of where Michael tracks. A Flash Flood Watch is in effect for portions of the Big Bend and eastern Panhandle where 4-8" of rain is expected with isolated totals of 10-12" possible.

48-Hour Precipitation (in)

Ending Thursday, Oct. 11, 2018 at 8 a.m. EDT

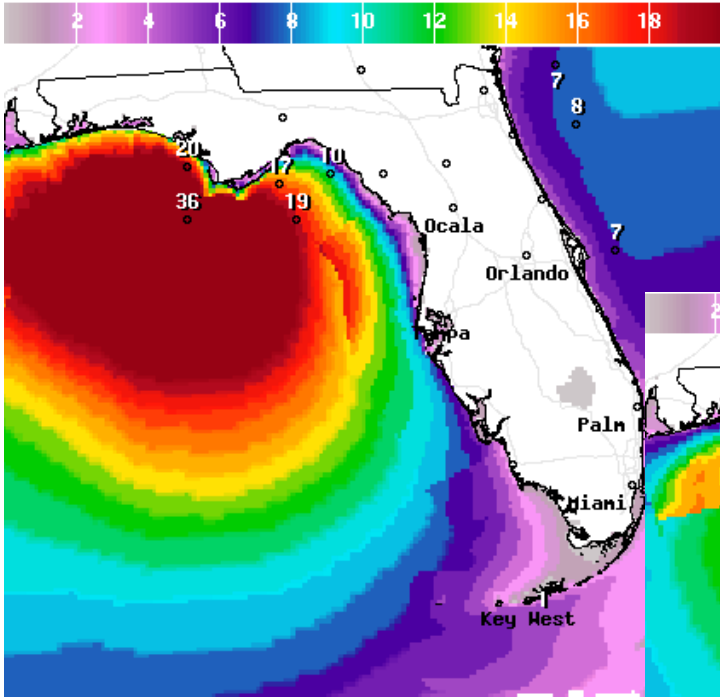
Init: Tue 2018-10-09 12z WPC




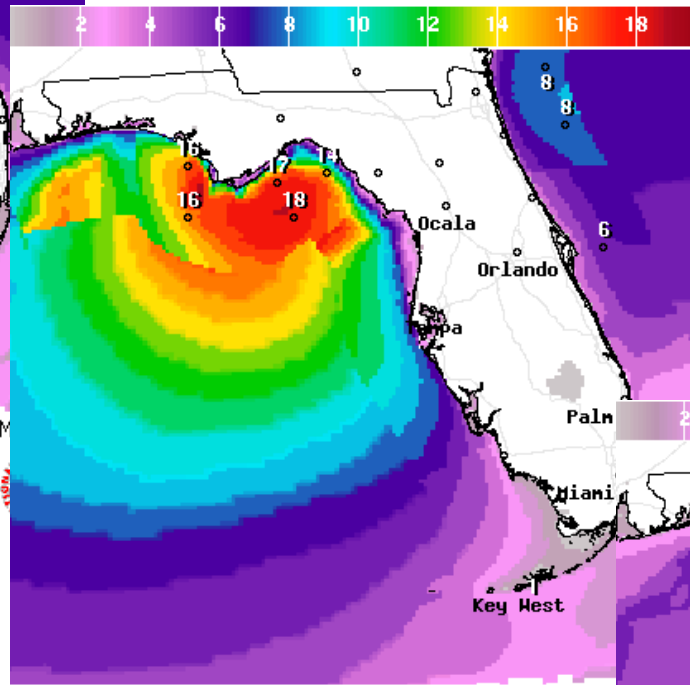



The risk for isolated tornadoes will increase as outer bands move onshore, especially to the east of the center of Michael.

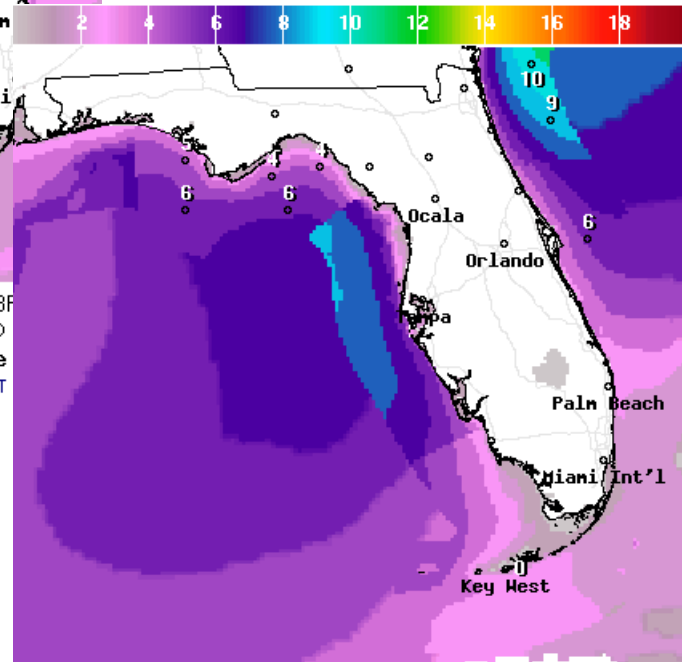
Forecast Wave Heights




 **National Digital Forecast Database**
20z issuance Graphic created-Oct 09 4:31PM EDT



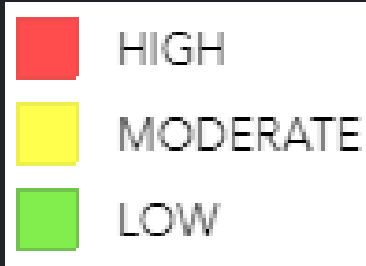
 **National Digital Forecast Database**
19z issuance Graphic created-Oct 09 3:50PM EDT



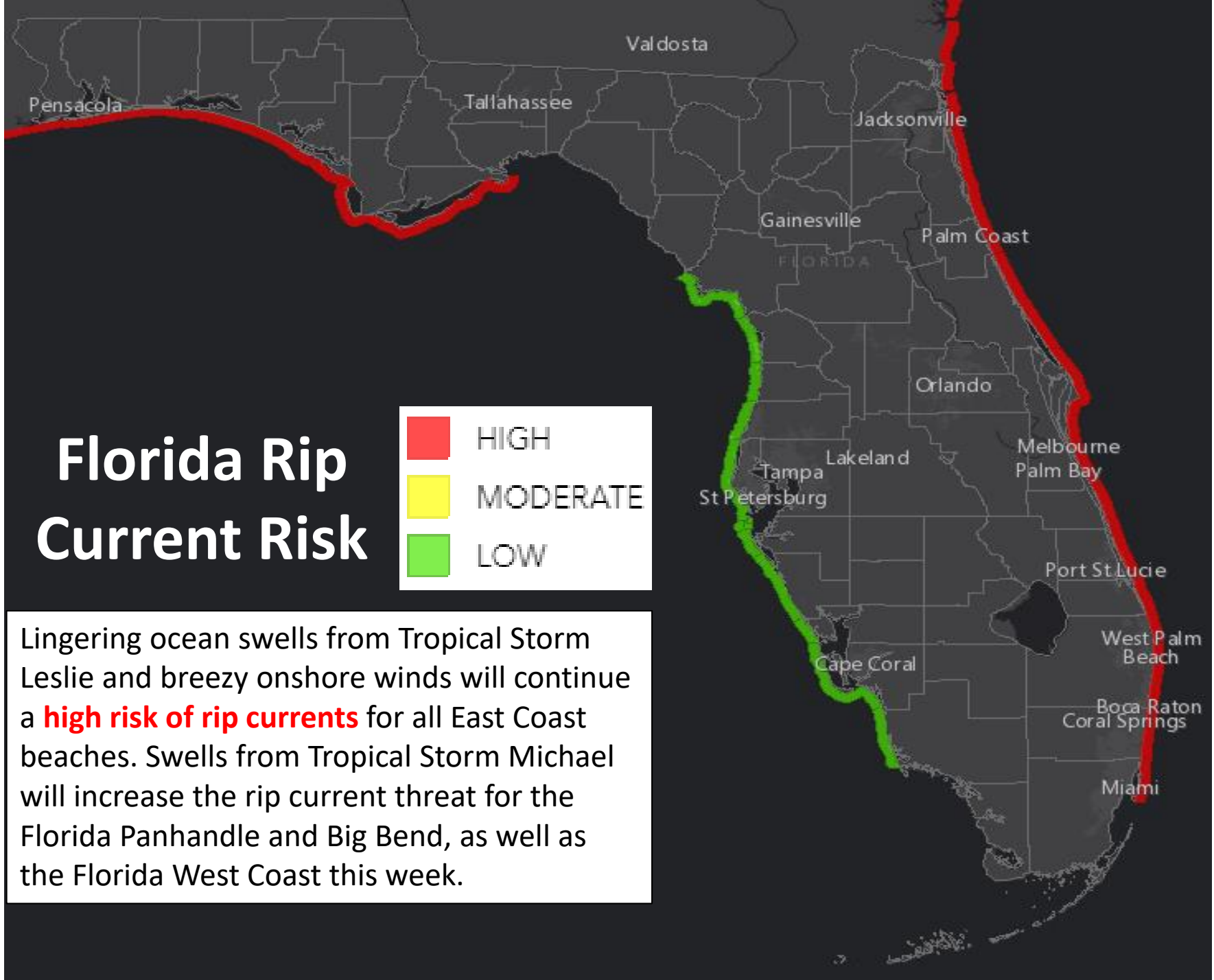
 **National Digital Forecast Database**
10z issuance Graphic created-Oct 09 3:50PM EDT

Wave heights along the Panhandle and Big Bend may peak at 15-25' at the beach and much higher offshore. Beach erosion likely. Wave heights will begin to subside Thursday.

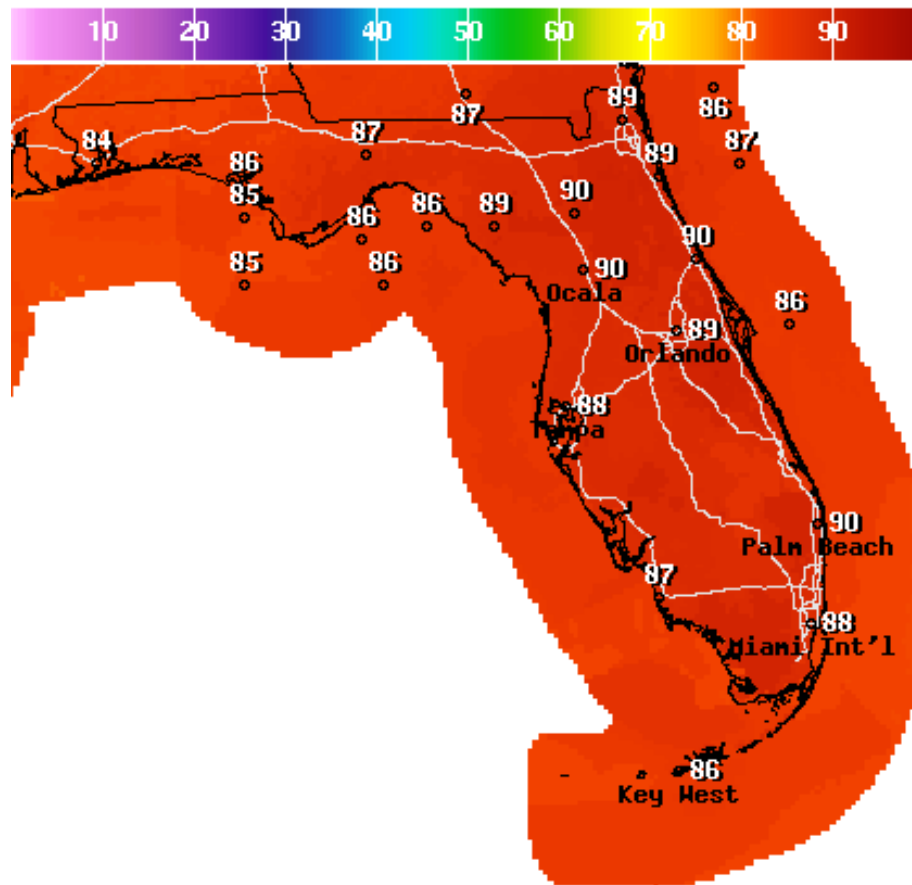
Florida Rip Current Risk



Lingering ocean swells from Tropical Storm Leslie and breezy onshore winds will continue a **high risk of rip currents** for all East Coast beaches. Swells from Tropical Storm Michael will increase the rip current threat for the Florida Panhandle and Big Bend, as well as the Florida West Coast this week.



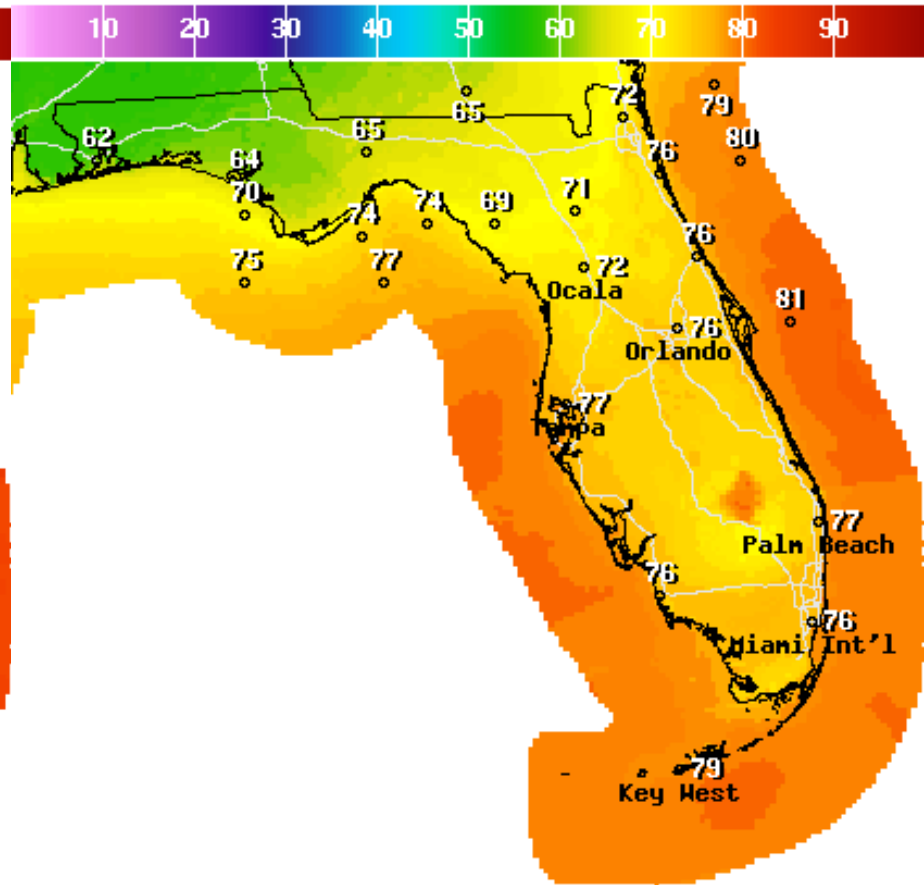
Forecast - Thursday



High Temperature(F) Ending Thu Oct 11 2018 8PM EDT
(Fri Oct 12 2018 00Z)



National Digital Forecast Database
10z issuance Graphic created-Oct 09 6:47AM EDT

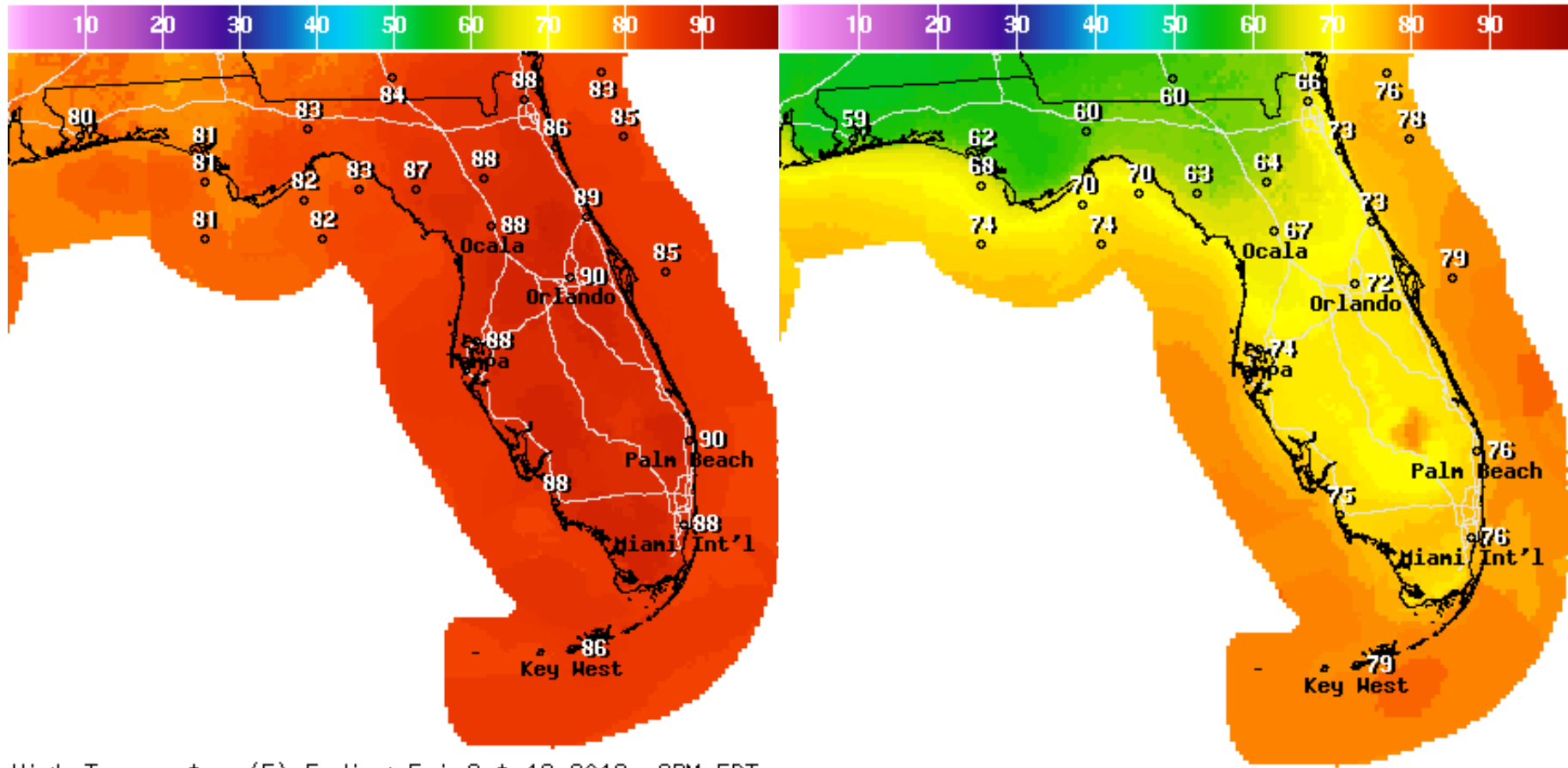


Low Temperature(F) Ending Fri Oct 12 2018 8AM EDT
(Fri Oct 12 2018 12Z)



National Digital Forecast Database
06z issuance Graphic created-Oct 09 2:35AM EDT

Post-Storm High/Low Temperature Forecast - Friday



High Temperature(F) Ending Fri Oct 12 2018 8PM EDT
(Sat Oct 13 2018 00Z)



National Digital Forecast Database

06z issuance Graphic created-Oct 09 2:47AM EDT



Low Temperature(F) Ending Sat Oct 13 2018 8AM EDT
(Sat Oct 13 2018 12Z)

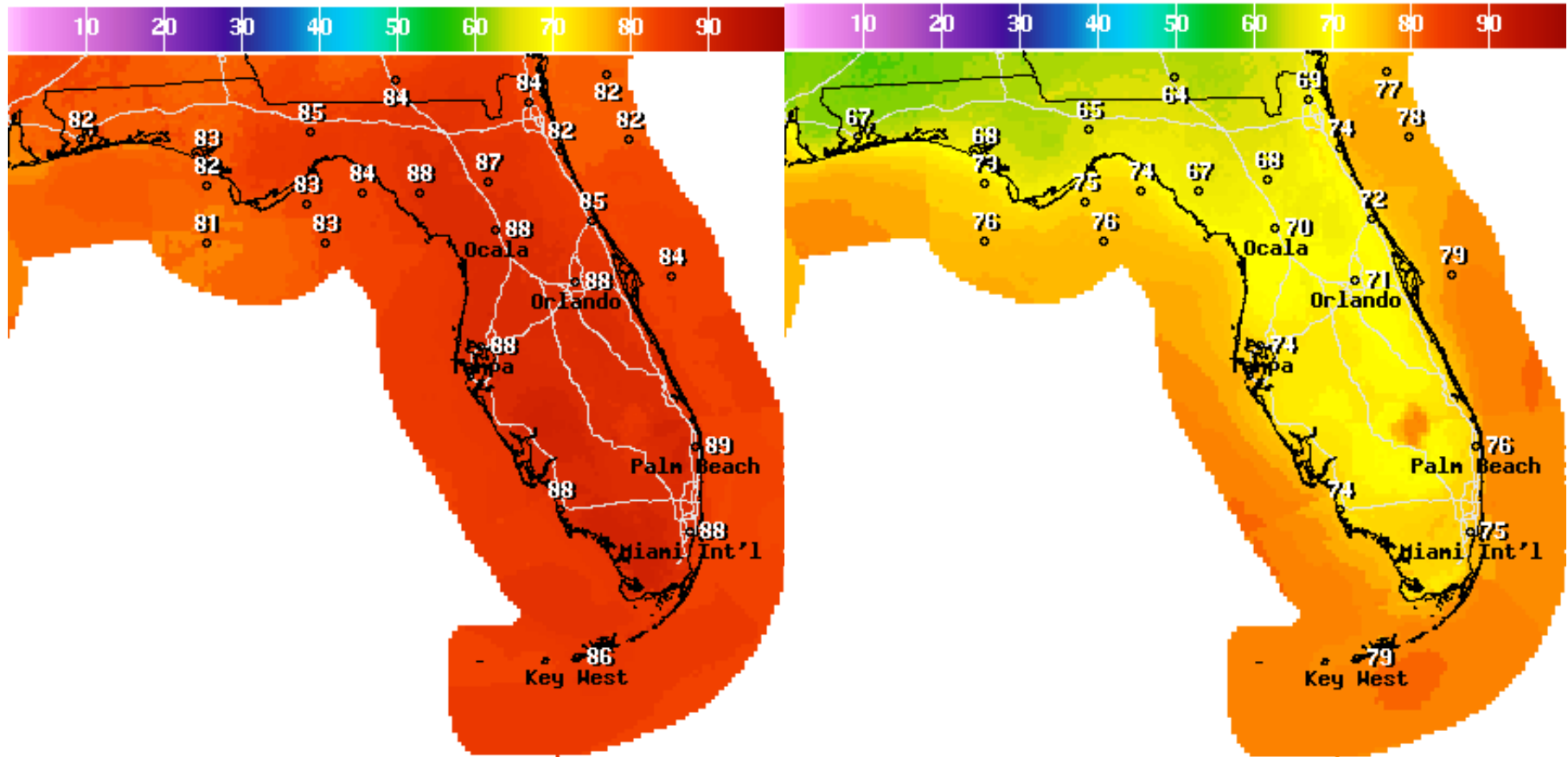


National Digital Forecast Database

06z issuance Graphic created-Oct 09 2:35AM EDT



Post-Storm High/Low Temperature Forecast - Saturday



High Temperature(F) Ending Sat Oct 13 2018 8PM EDT
(Sun Oct 14 2018 00Z)



National Digital Forecast Database

06z issuance

Graphic created-Oct 09 2:47AM EDT



Low Temperature(F) Ending Sun Oct 14 2018 8AM EDT
(Sun Oct 14 2018 12Z)



National Digital Forecast Database

06z issuance

Graphic created-Oct 09 2:35AM EDT





Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



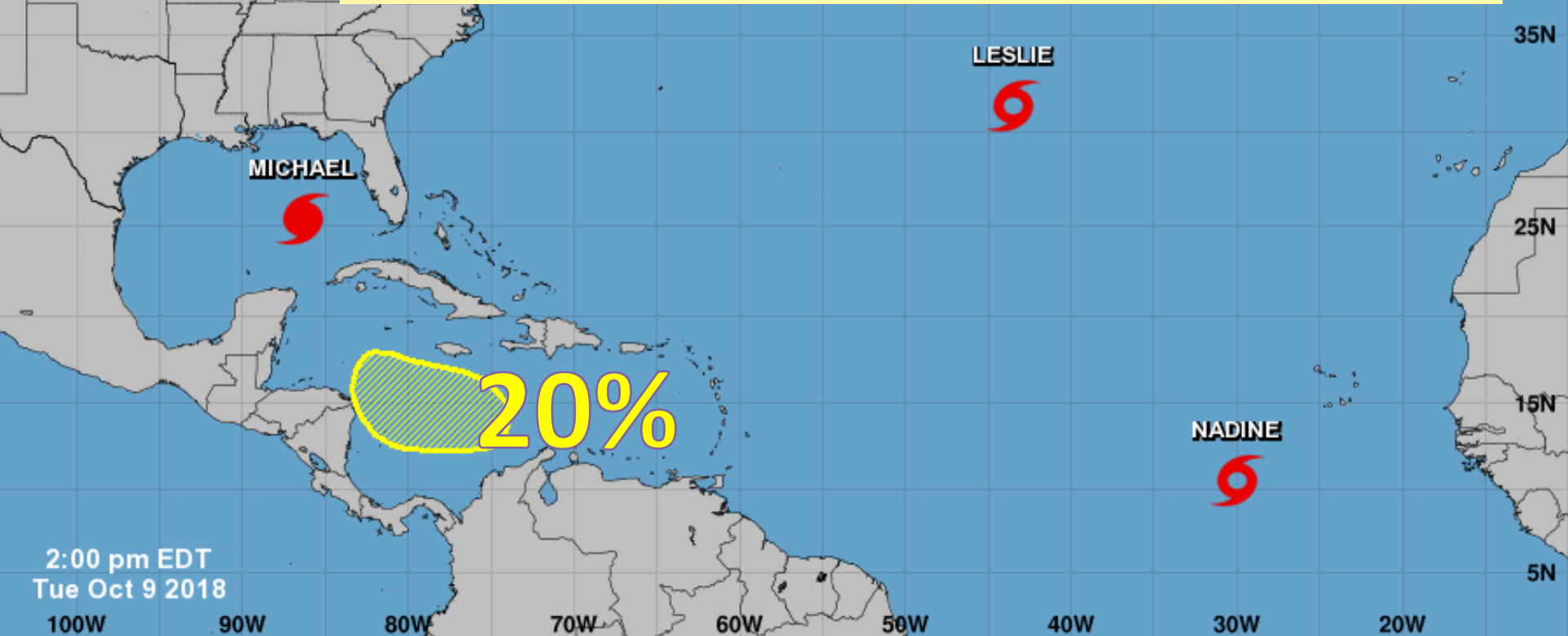
All Disturbances

The National Hurricane Center is issuing advisories on Hurricane Michael, located over the southeastern Gulf of Mexico, on Tropical Storm Leslie, located over the central Atlantic Ocean, and recently upgraded Tropical Storm Nadine, located several hundred miles southwest of the Cabo Verde Islands.

An area of low pressure is expected to develop over the western Caribbean Sea by the weekend. Environmental conditions are expected to support some gradual development after that time while the system moves slowly westward.

* Formation chance through 48 hours...low...near 0 percent.

* Formation chance through 5 days...low...20 percent.



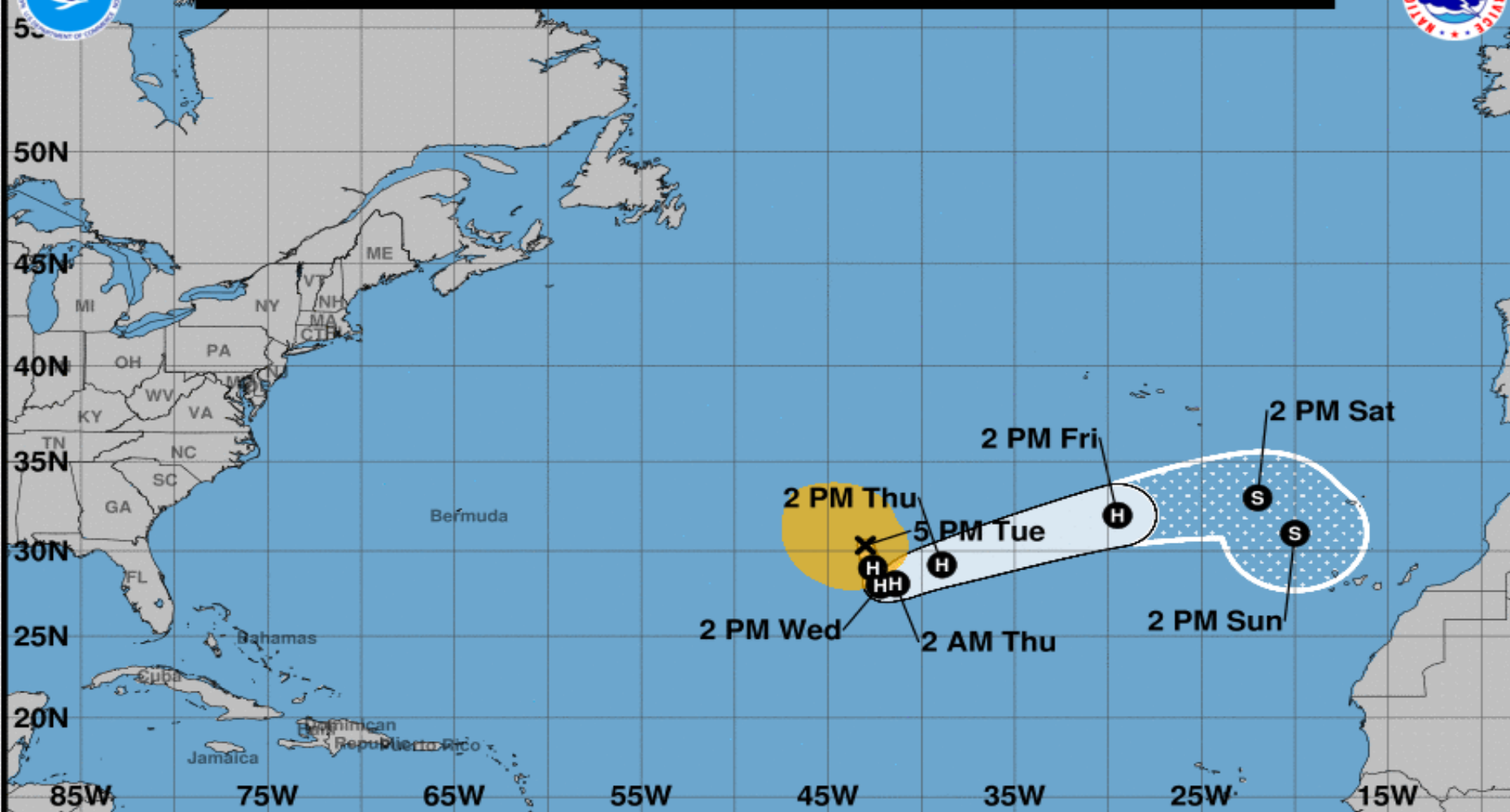
Current Disturbances and Five-Day Cyclone Formation Chance: < 40% 40-60% > 60%

Tropical or Sub-Tropical Cyclone: Depression Storm Hurricane

Post-Tropical Cyclone or Remnants



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 Leslie
Tuesday October 09, 2018
5 PM AST Advisory 54
NWS National Hurricane Center

Current information: x
Center location 30.3 N 43.0 W
Maximum sustained wind 70 mph
Movement SSE at 12 mph

Forecast positions:
● Tropical Cyclone ○ Post/Potential TC
Sustained winds: D < 39 mph
S 39-73 mph H 74-110 mph M > 110 mph

Potential track area:

Day 1-3 Day 4-5

Watches:

Hurricane Trop Stm

Warnings:

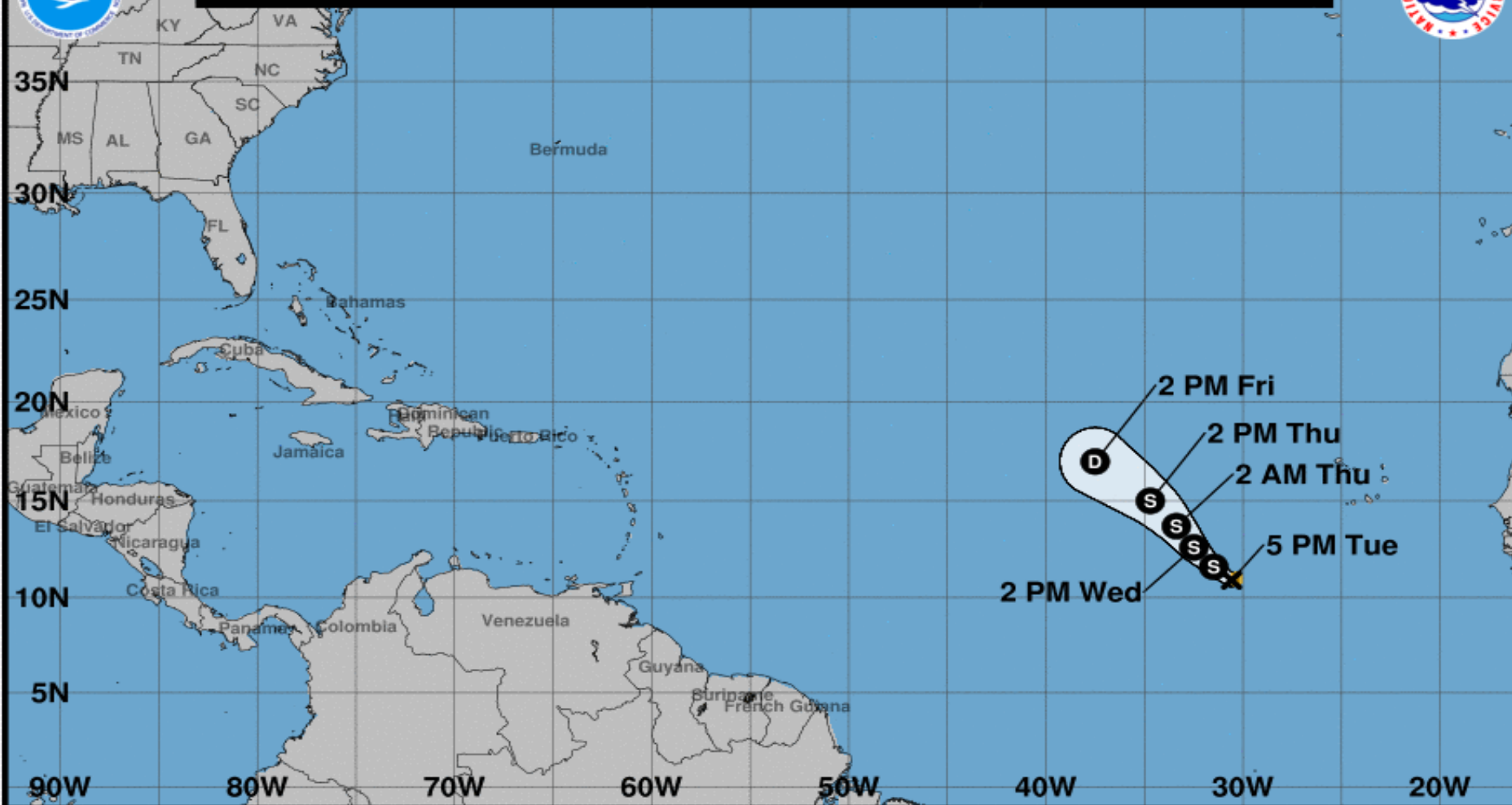
Hurricane Trop Stm

Current wind extent:

Hurricane Trop Stm



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 Nadine
Tuesday October 09, 2018
5 PM AST Advisory 3
NWS National Hurricane Center

Current information: x
Center location 10.9 N 30.6 W
Maximum sustained wind 40 mph
Movement WNW at 8 mph

Forecast positions:
● Tropical Cyclone ○ Post/Potential TC
Sustained winds: D < 39 mph
S 39-73 mph H 74-110 mph M > 110 mph

Potential track area:



Watches:



Warnings:



Current wind extent:



Summary

Tropical Storm Leslie:

- Tropical Storm Leslie is located about in the central Atlantic Ocean with maximum sustained winds near 70 mph and moving south-southeast at 12 mph.
- Leslie could become a hurricane tonight or tomorrow, but will move south for the next 24 hours then turn toward the east-northeast through Friday. A turn back to the south is possible this weekend.

Tropical Storm Nadine:

- Tropical Storm Nadine is located in the eastern Atlantic Ocean with maximum sustained winds near 40 mph.
- Some slight strengthening is forecast over the next couple days while moving northwest, but is forecast to dissipate this weekend.

Hurricane Michael:

- At 5pm EDT Tuesday, Hurricane Michael was located about 295 miles south of Panama City, FL, and moving north at 12mph.
- Maximum sustained winds have increased to 120 mph, a Category 3 on the Saffir-Simpson Hurricane Wind Scale.
- Some additional strengthening is possible tonight, and Michael is expected to remain a strong Category 3 hurricane until landfall in the eastern Florida Panhandle on Wednesday.
- Tropical storm force winds extend up to 175 miles from the center and hurricane force winds extending up to 45 miles from the center.
- Michael is forecast to weaken after landfall and become a tropical storm over Southwest Georgia on Thursday, then quickly move across Georgia, South Carolina and North Carolina on Thursday before emerging into the Atlantic Friday morning.

Florida Outlook:

- An increase in water levels from Michael are already present and wave heights and storm surge will continue to increase through Wednesday night.
- Tropical storm conditions may arrive in the Panhandle after midnight and spread inland throughout the day. Hurricane conditions should arrive in the Panhandle Wednesday afternoon or early evening.
- **Tropical Storm Wind Watches** are in effect for 5 counties along the Florida West Coast, with a **Tropical Storm Warning** in effect for 10 counties in the eastern Big Bend, Suwannee Valley and Nature Coast.
- **Hurricane Warnings** are in effect for 18 Panhandle and Big Bend counties, including coastal portions of Taylor and Dixie.
- Storm surge will be one of the greatest impacts from this storm and may affect a large portion of the Florida Gulf Coast. **Storm Surge Warnings** have been issued between the Walton/Okaloosa border eastward to the Pasco/Pinellas County line for possible surge inundation of 6-9' for the eastern Panhandle coast and Nature Coast, and 9-13' for Apalachee Bay and the eastern Panhandle east of Panama City. Storm Surge Watches remain in effect for the western Panhandle and Tampa Bay region for possible surge values of 2-4'.
- Widespread rainfall totals of 4-8" with locally higher amounts of 8-10+" can be expected across the Panhandle and Big Bend, with most of it occurring on Wednesday.
- Isolated tornadoes will be possible Wednesday across North Florida and even northern portions of Central Florida. Tornado Watches will likely be issued tomorrow.
- Ocean swells from Tropical Storm Leslie and breezy onshore winds from high pressure to the north of Florida will continue producing high risk of rip currents along all Atlantic beaches.
- Tropical Storm Nadine is not expected to affect Florida.

Another briefing packet will be issued tomorrow morning. For the latest information on the tropics, please visit the National Hurricane Center website at www.hurricanes.gov.



TROPICAL UPDATE

Created by:

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State Meteorological Support Unit
Florida Division of Emergency
Management

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