



TROPICAL UPDATE

5 AM EDT

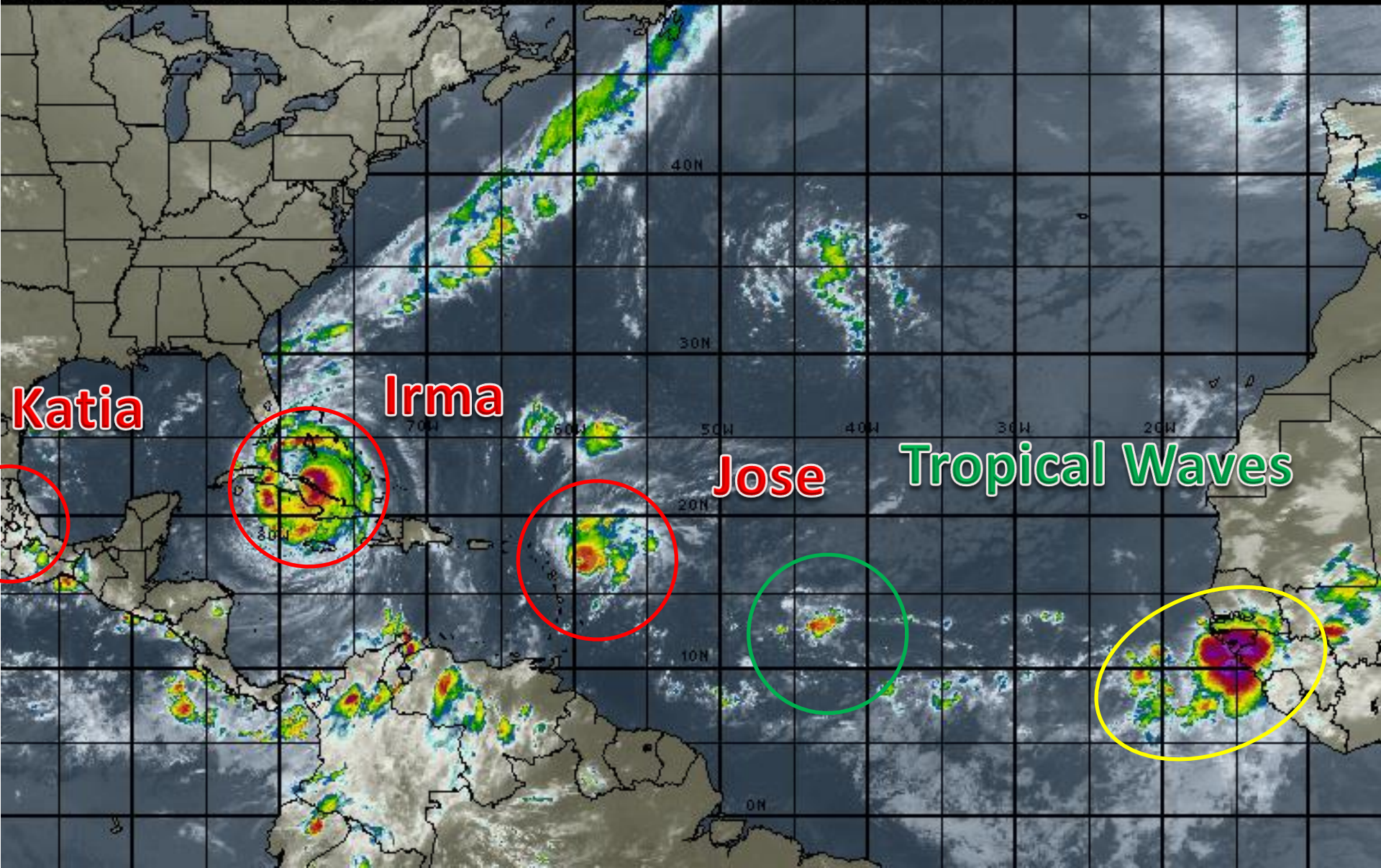
Saturday, September 9, 2017

Hurricane Irma, Hurricane Jose, and Tropical Storm Katia

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

06:00 09-SEP-2017 GMT Copyright © 1998-2016 WSI Corporation <http://www.wsi.com>



Hurricane Irma

5 AM EDT Sat Sep 09 2017

Position 22.5 N 78.8 W

Maximum Winds 155 mph

Gusts 190 mph

Movement WNW at 11 mph

Minimum Pressure 930 mb (27.45 inches)

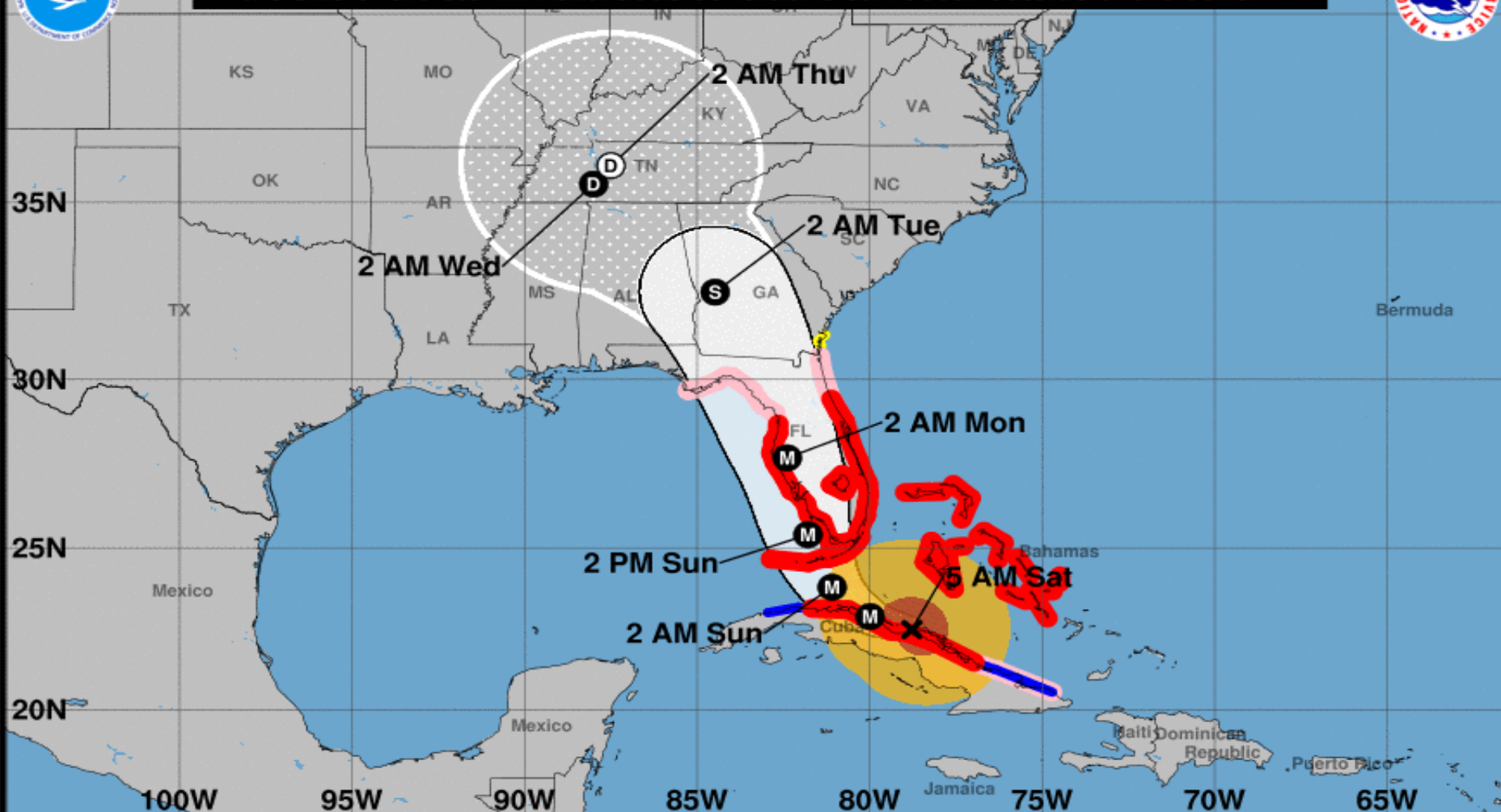
Blue Marble basemap imagery courtesy NASA

Satellite 10:07 AM UTC
6:07 AM EDT





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.



Hurricane Irma

Saturday September 09, 2017

5 AM EDT Advisory 41

NWS National Hurricane Center

Current information: x

Center location 22.5 N 78.8 W

Maximum sustained wind 155 mph

Movement WNW 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:

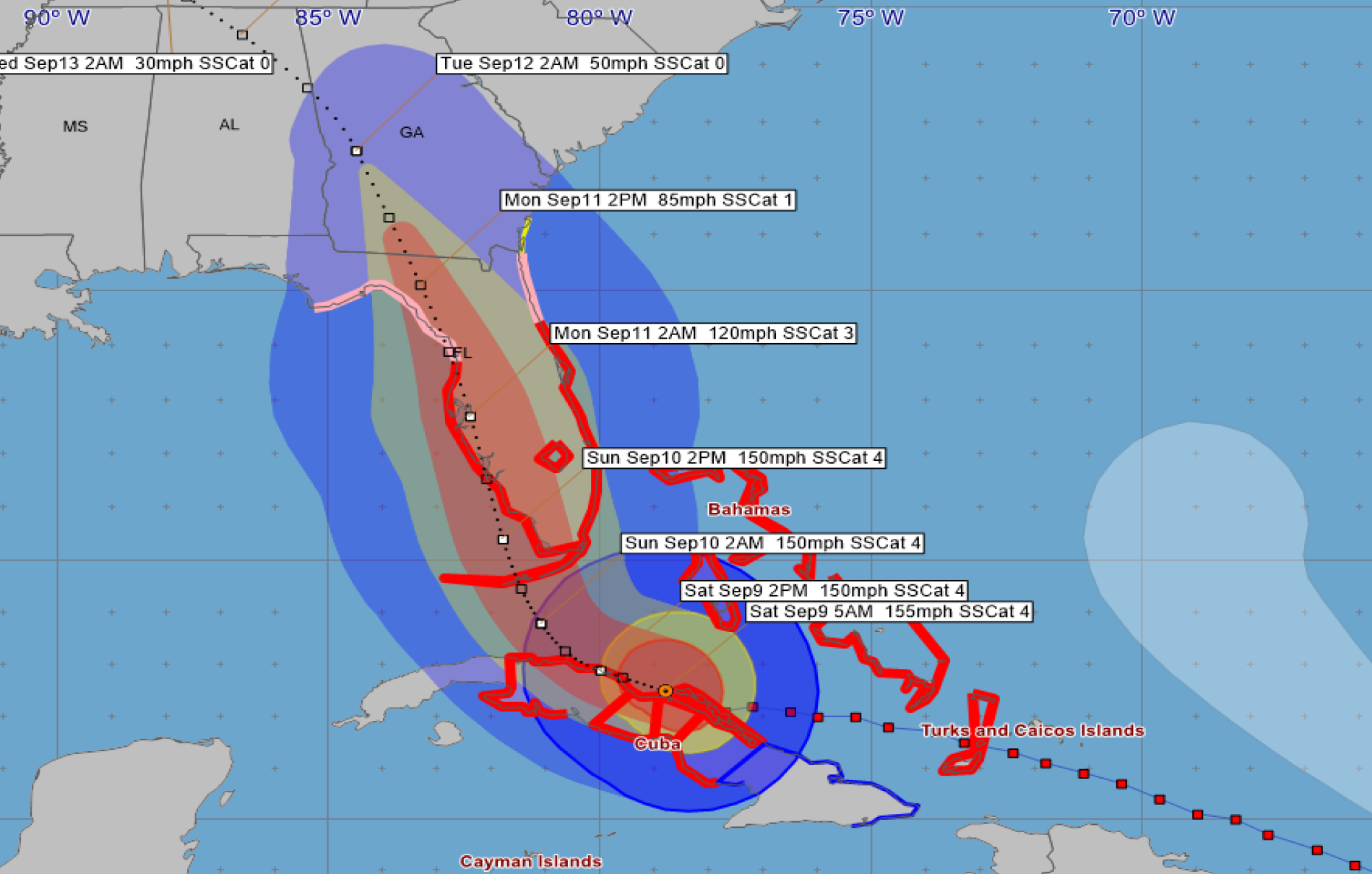
Hurricane Trop Stm

Warnings:

Hurricane Trop Stm

Current wind extent:

Hurricane Trop Stm



Hurricane Irma - Saturday, September 9, 2017 5 AM EDT Advisory #41

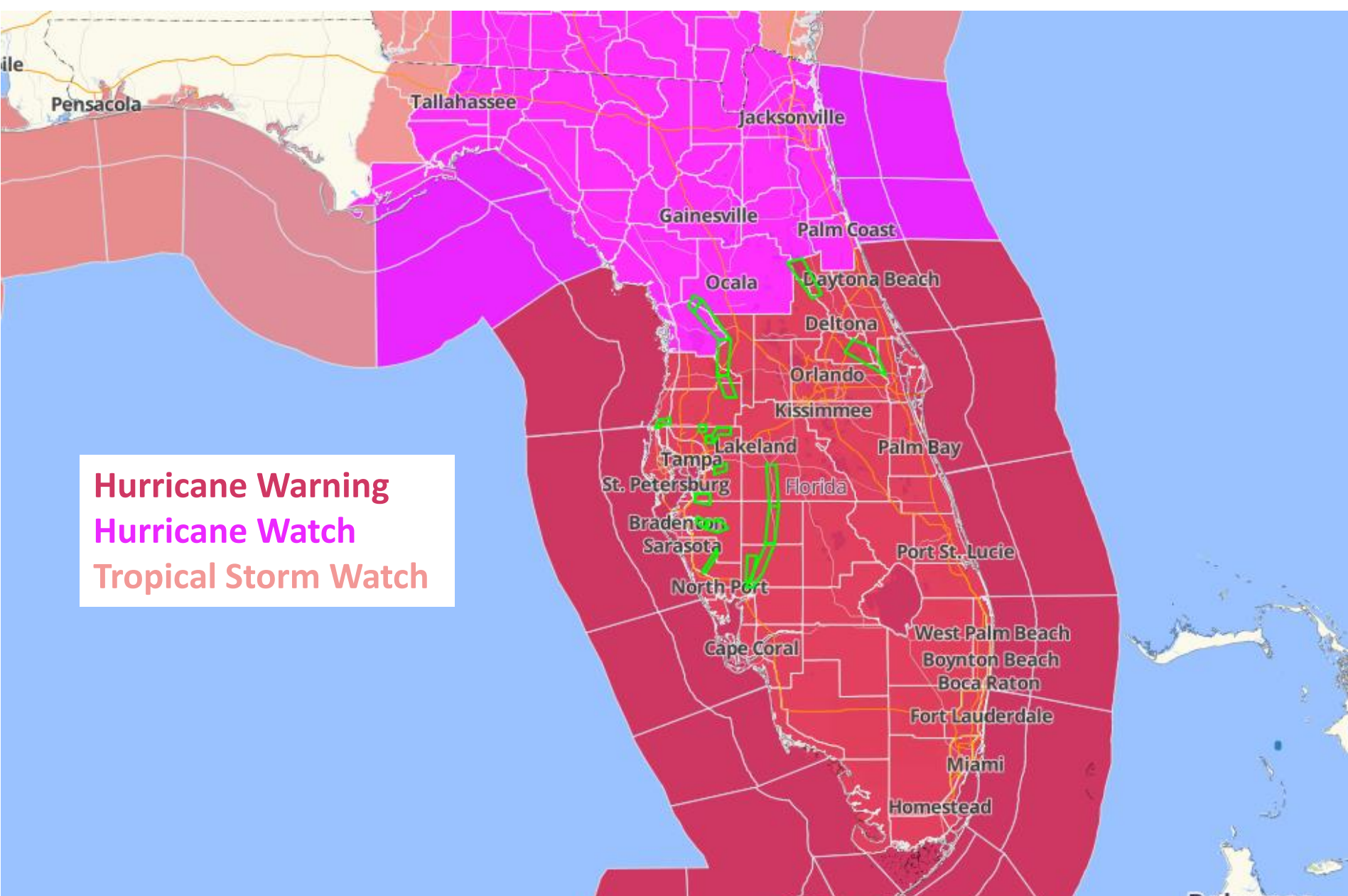
Center Location: 22.5 N 78.8 W Maximum Sustained Winds: 155 mph (Cat 4) Movement: 12 mph W

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

Watches: hurricane tropical storm

Warnings: hurricane tropical storm

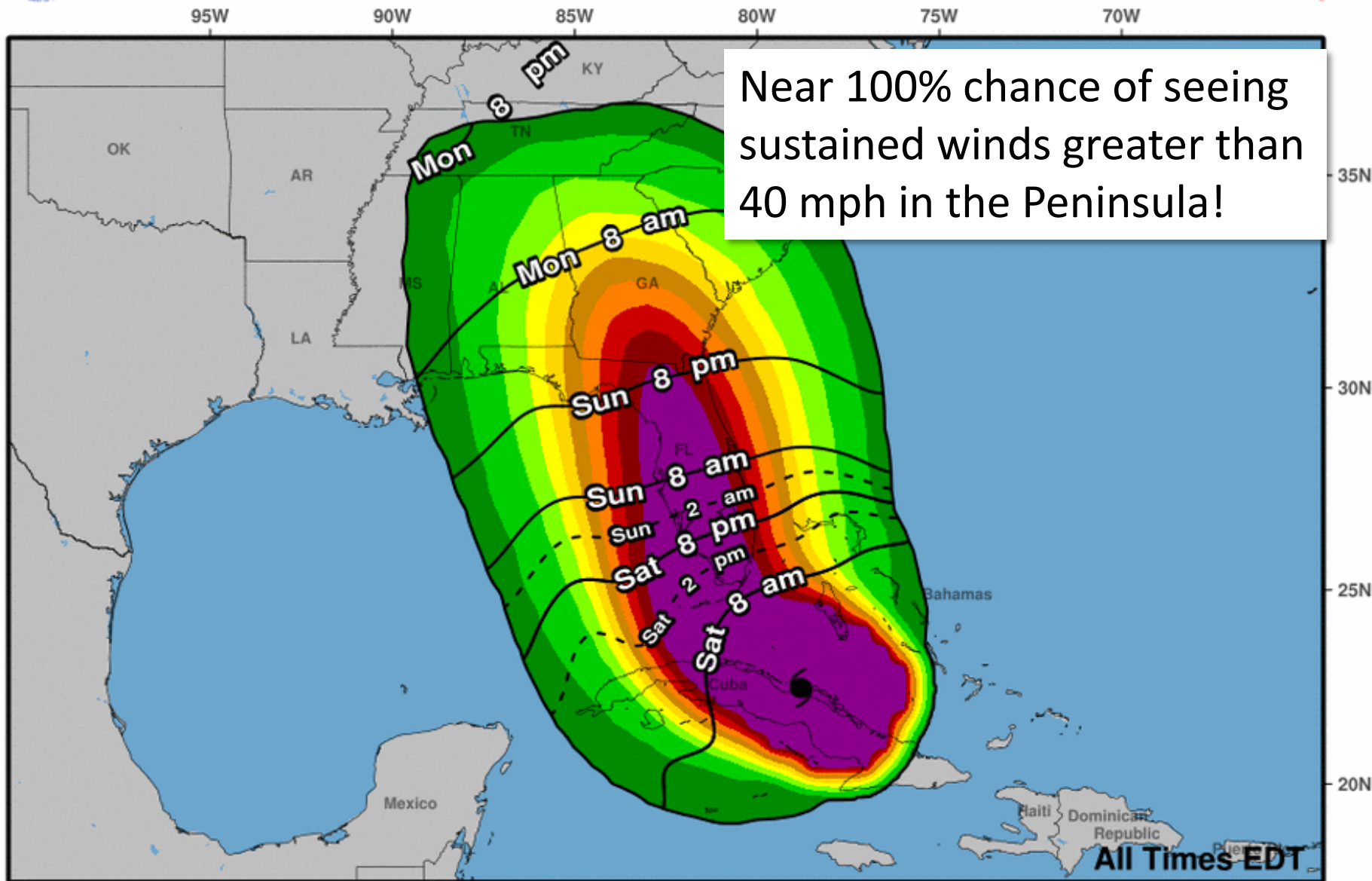
Sustained Wind Speeds: tropical storm ≥ 34 kt/39mph strong tropical storm ≥ 50 kt/58mph hurricane ≥ 64 kt/74mph



The **Hurricane Warning** area also includes the entire Florida Keys and Lake Okeechobee. The **Hurricane Watch** includes Tallahassee/SEOC.



Earliest Reasonable Arrival Time of Tropical-Storm-Force Winds



Hurricane Irma
Sat. Sep. 9, 2017 5 am EDT
Advisory 41

Storm Location &
Wind Speed (knots)
○ <34 ◐ 34-63 ◑ ≥64

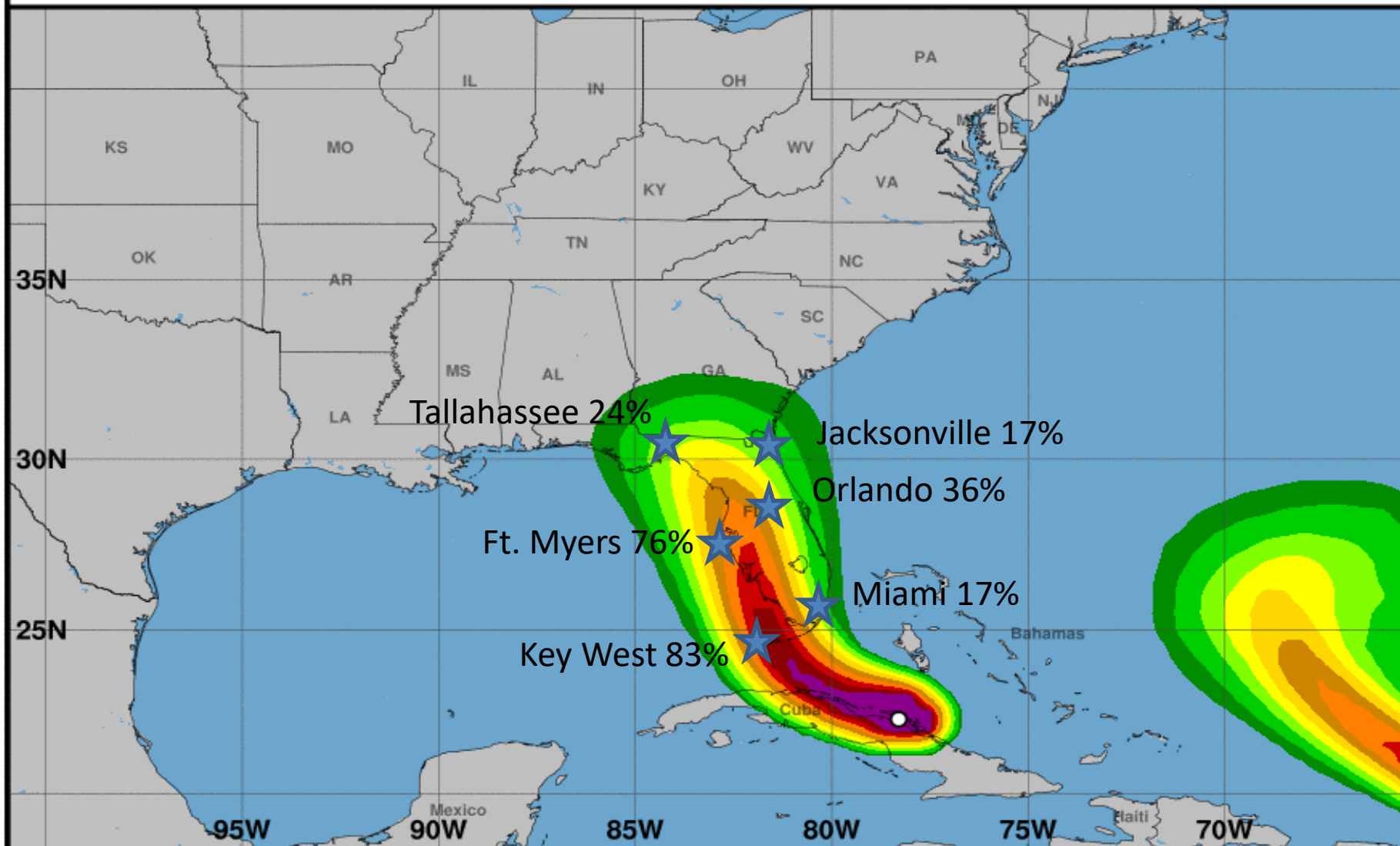
Five-day chance of receiving sustained 34+ knot (39+ mph) winds





Hurricane-Force Wind Speed Probabilities

For the 120 hours (5.00 days) from 2 AM EDT SAT SEP 09 to 2 AM EDT THU SEP 14

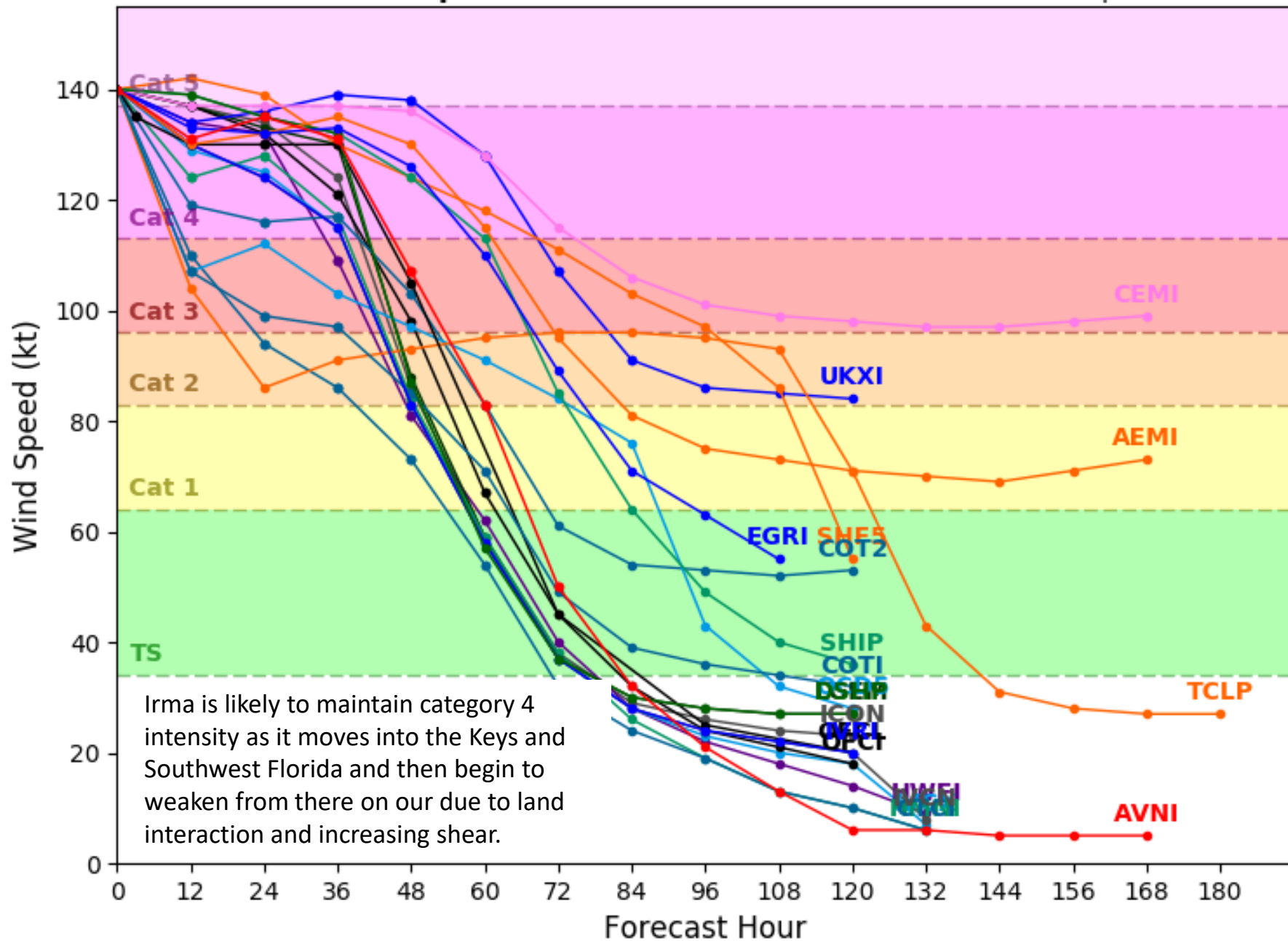


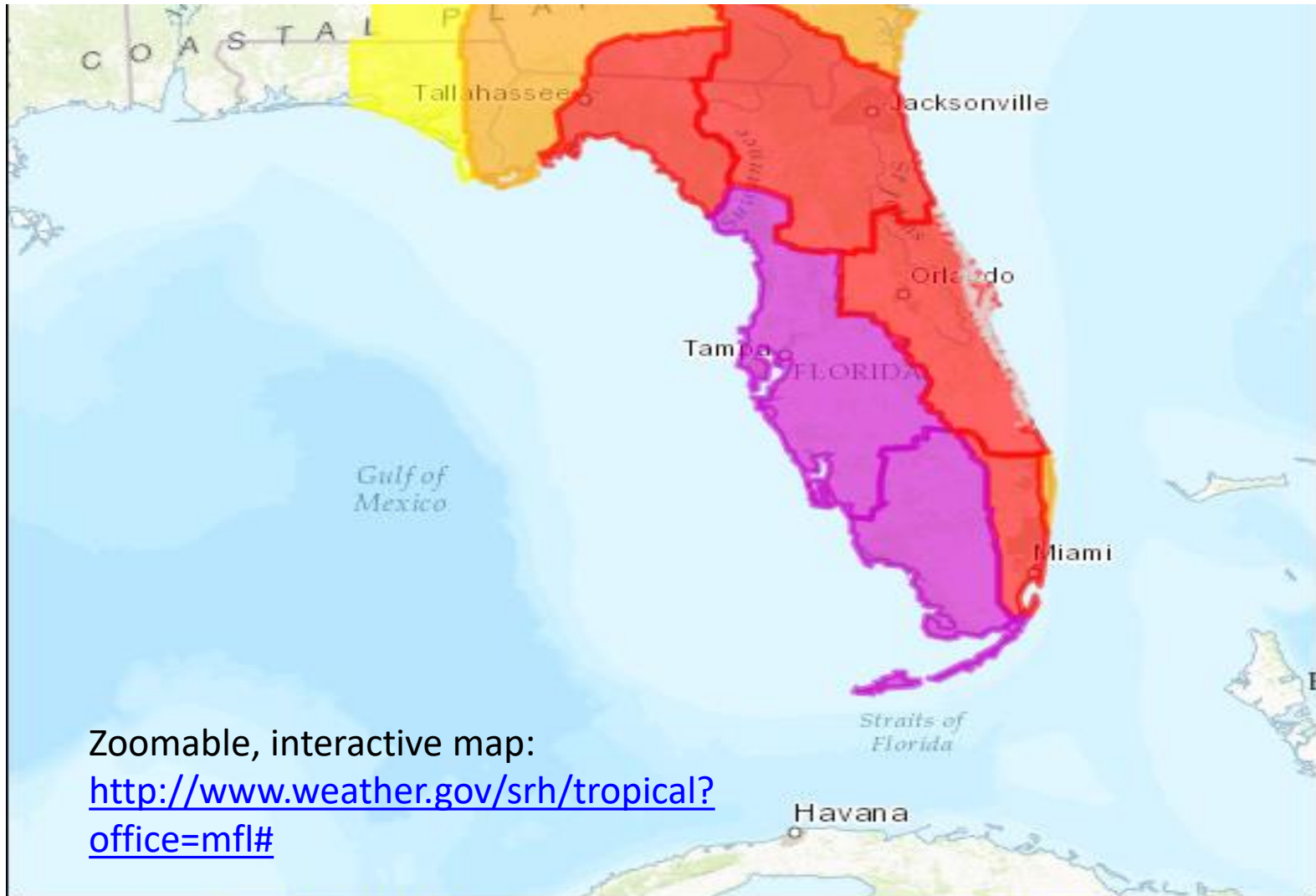
Probability of hurricane-force winds (1-minute average ≥ 74 mph) from all tropical cyclones

○ indicates Hurricane Irma center location at 2 AM EDT SAT SEP 09, 2017 (Forecast/Advisory #41)



Levi Cowan - tropicaltidbits.com

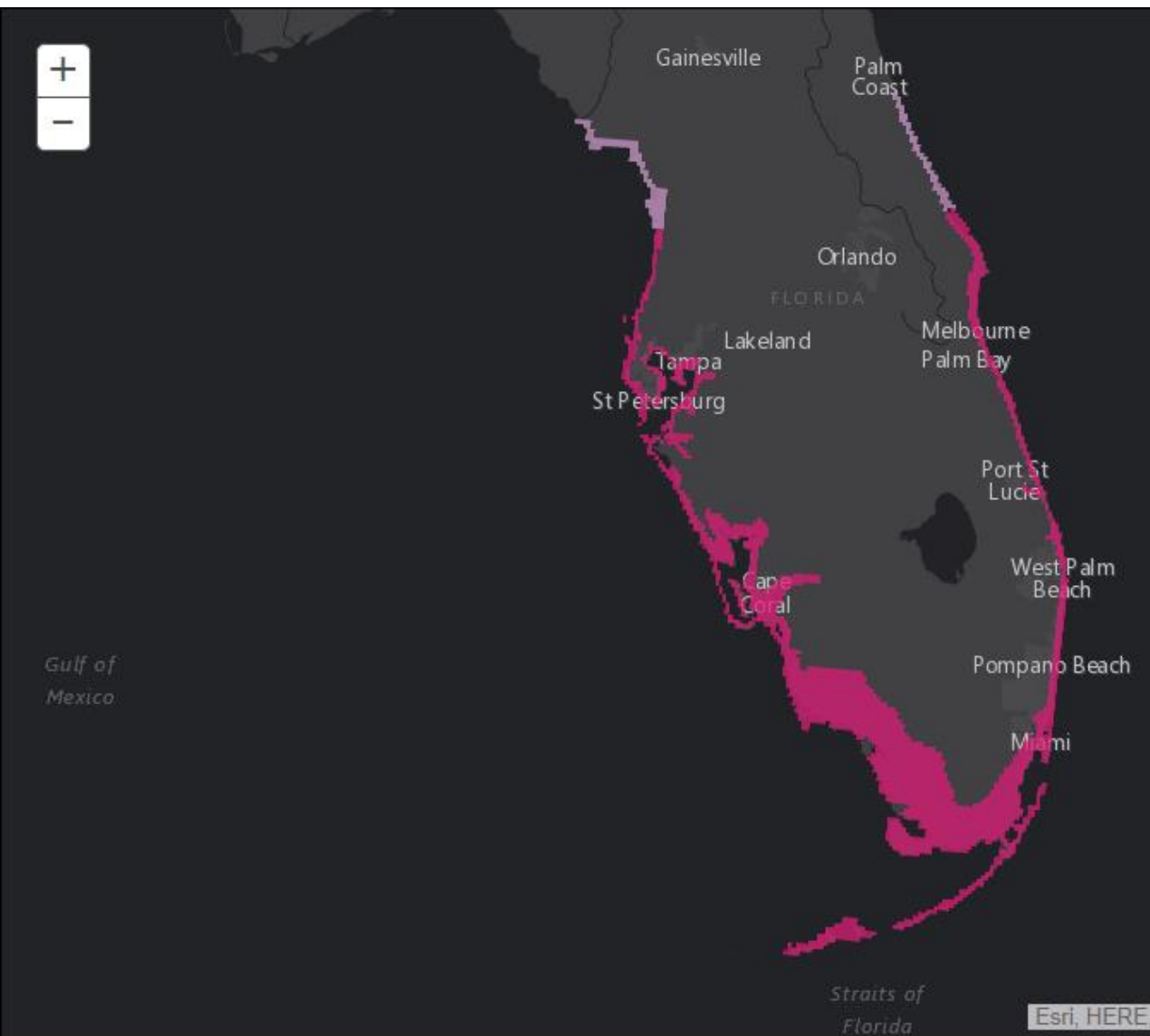




[Download KML]

[Download Image]

Wind Threat
Extreme - Potential for wind > 110 mph
High - Potential for wind 74 to 110 mph
Moderate - Potential for wind 58 to 73 mph
Elevated - Potential for wind 39 to 57 mph
Little to None - Wind < 39 mph



Storm Surge Warning

Storm Surge Watch

Zoomable maps available here:

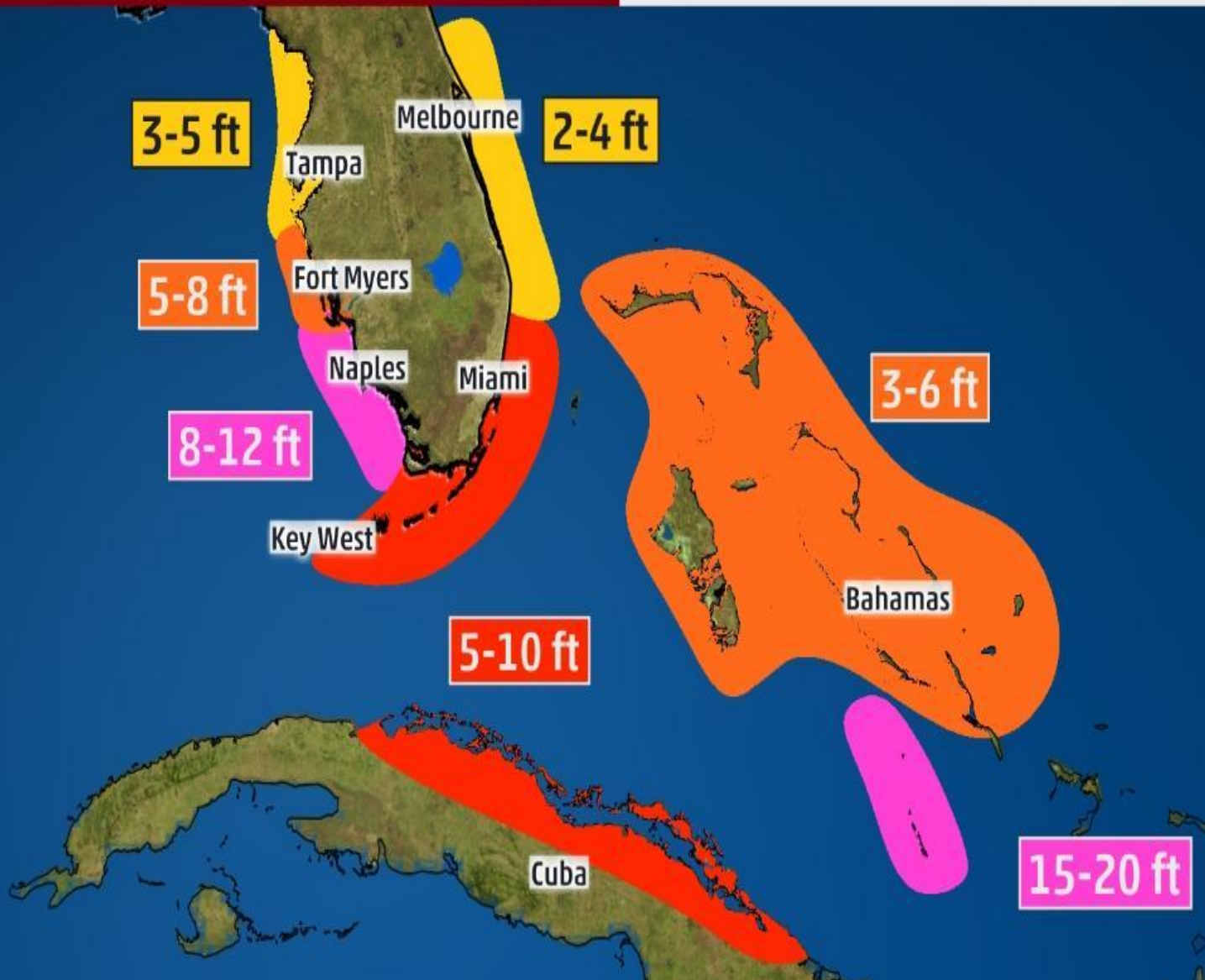
http://www.nhc.noaa.gov/refresh/graphics_at1+shtml/154730.shtml?wsurge#contents

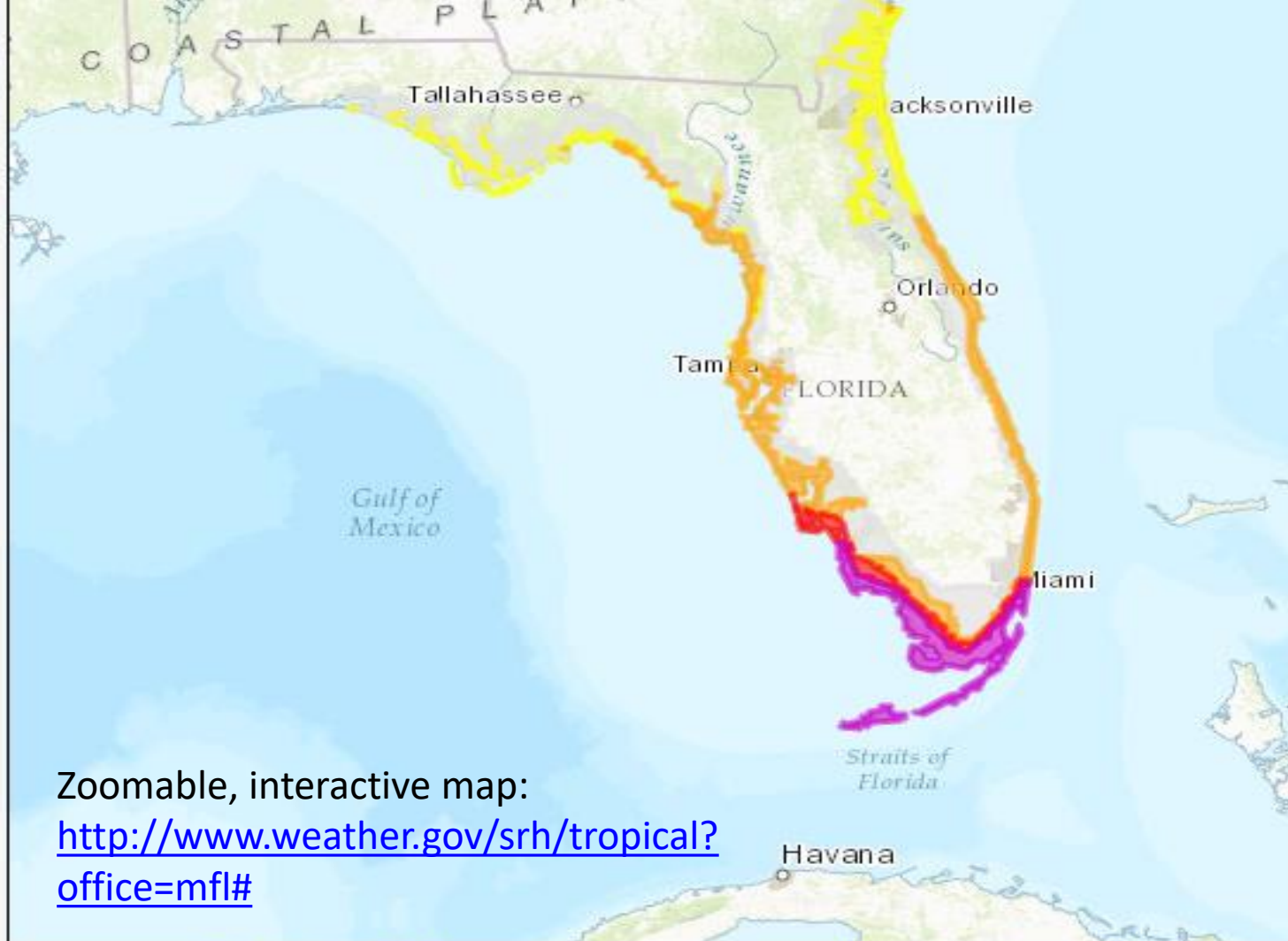
Probabilistic Storm Surge

<http://slosh.nws.noaa.gov/psurge2.0/index.php?S=Irma2017&Adv=34&Ty=e10&Z=z4&D=agl&Ti=cum&Msg=17&Help=about>

STORM SURGE INUNDATION

ABOVE NORMAL TIDE LEVELS





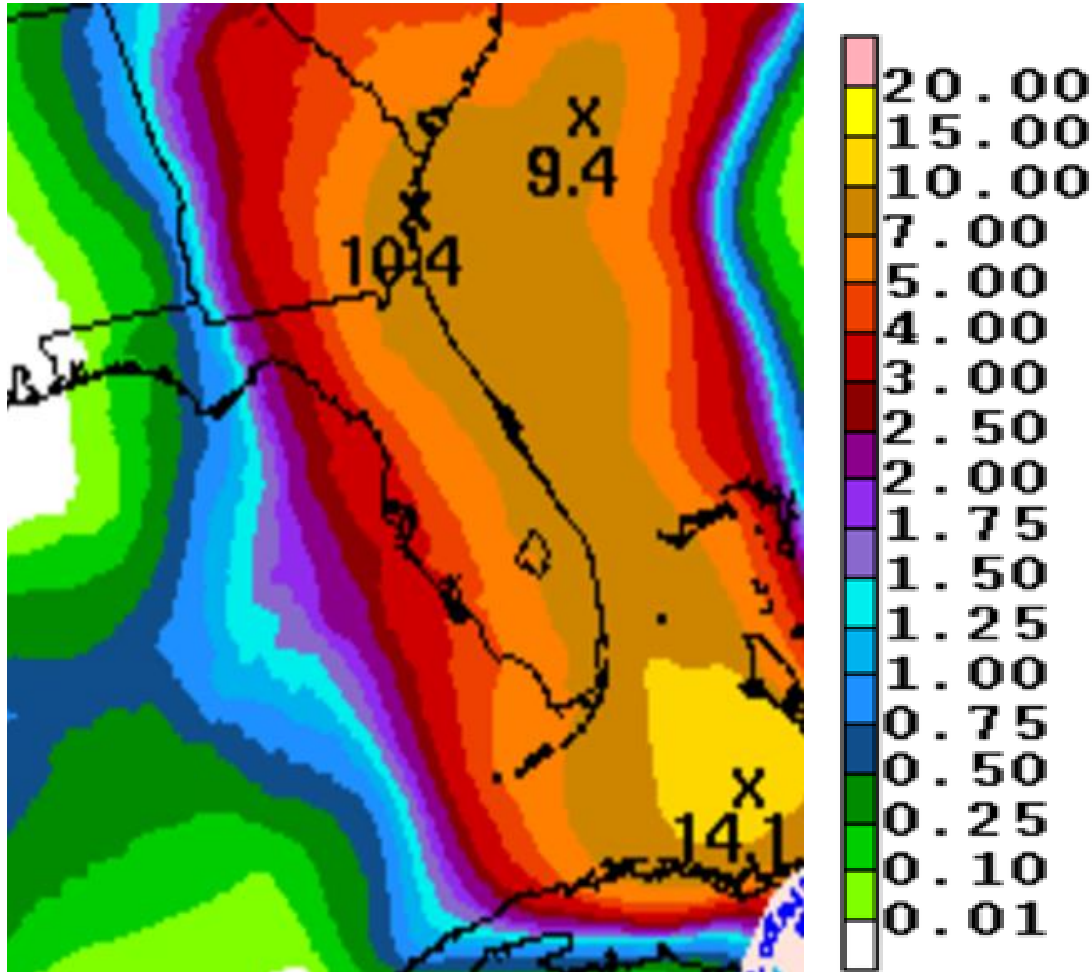
Zoomable, interactive map:
[http://www.weather.gov/srh/tropical?
office=mfl#](http://www.weather.gov/srh/tropical?office=mfl#)

[Download KML]

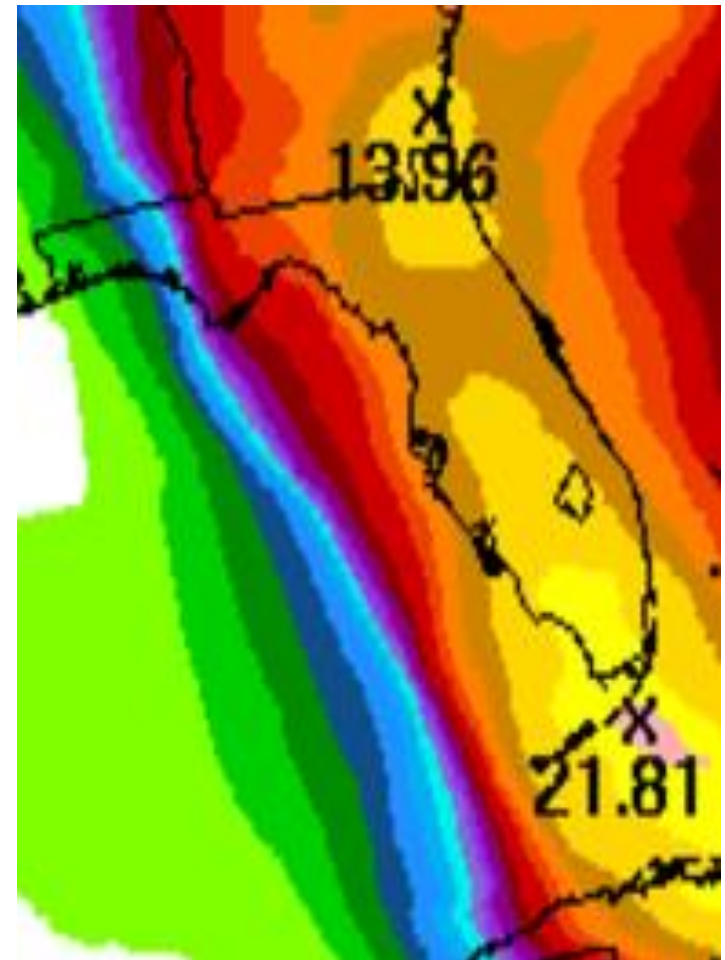
[Download Image]

Storm Surge Threat
Extreme - Potential for storm surge flooding > 9 ft above ground
High - Potential for storm surge flooding > 6 ft above ground
Moderate - Potential for storm surge flooding > 3 ft above ground
Elevated - Potential for storm surge flooding > 1 ft above ground
Little to None - Little to no storm surge flooding

Rainfall Forecast SUNDAY



Cumulative Rainfall Forecast Next 3 Days

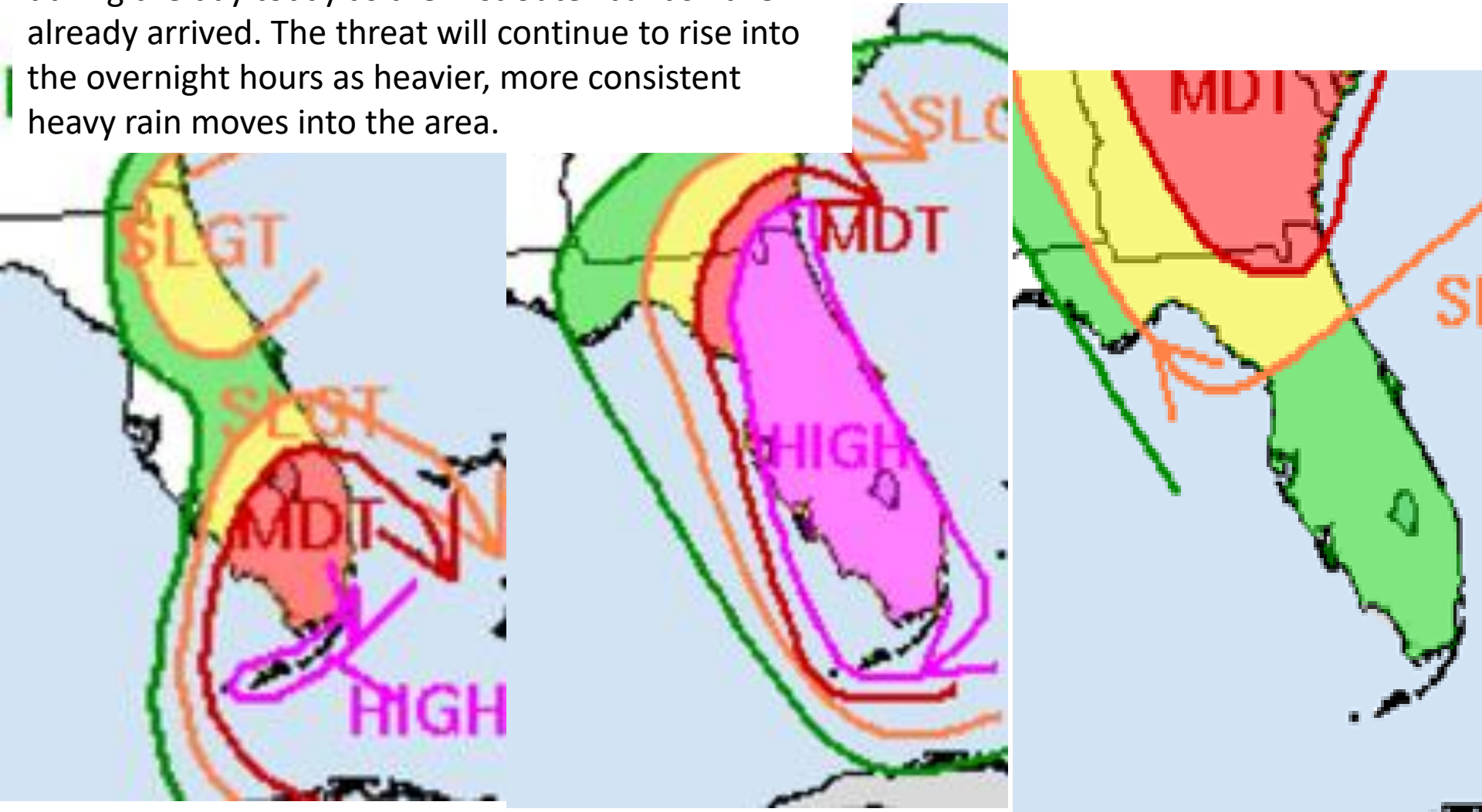


Generally 8-14" in the Peninsula, 4-8" in Big Bend, 1-3" in Panhandle, locally up to 20" anywhere in Florida Peninsula.

FLASH FLOOD THREAT

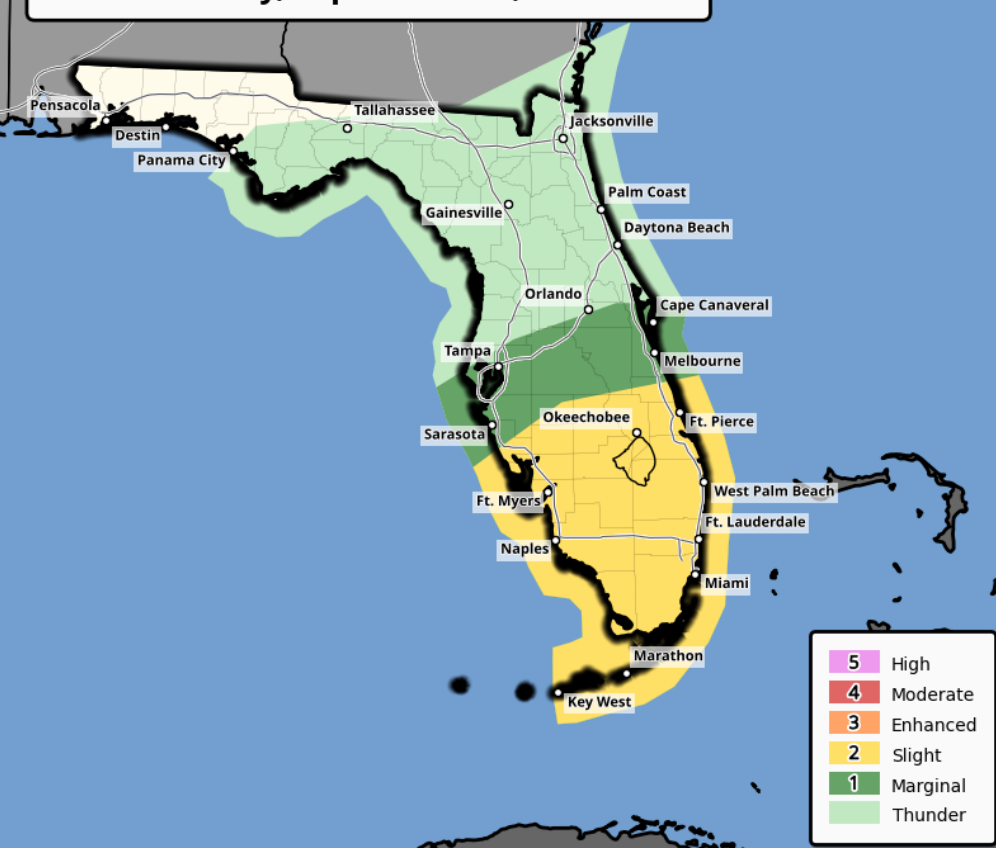
SATURDAY, SUNDAY, & MONDAY

The flood threat for Florida will begin to increase during the day today as the first outer bands have already arrived. The threat will continue to rise into the overnight hours as heavier, more consistent heavy rain moves into the area.



Tornado & Severe Thunderstorm Outlook Saturday, September 09, 2017

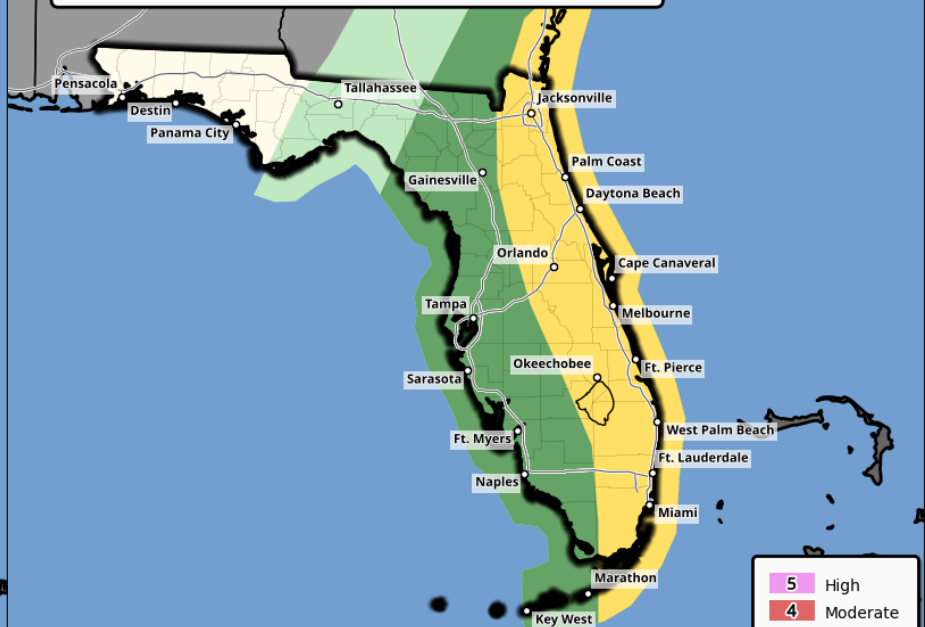
Last Updated: Sep 09 2017 1250 AM CDT
Valid Until: Sep 10 2017 0700 AM CDT



Tornado threat will begin to increase with the first arrival of outer bands from Irma on Saturday. Tornado watches may be needed for portions of the Peninsula this afternoon and tomorrow.

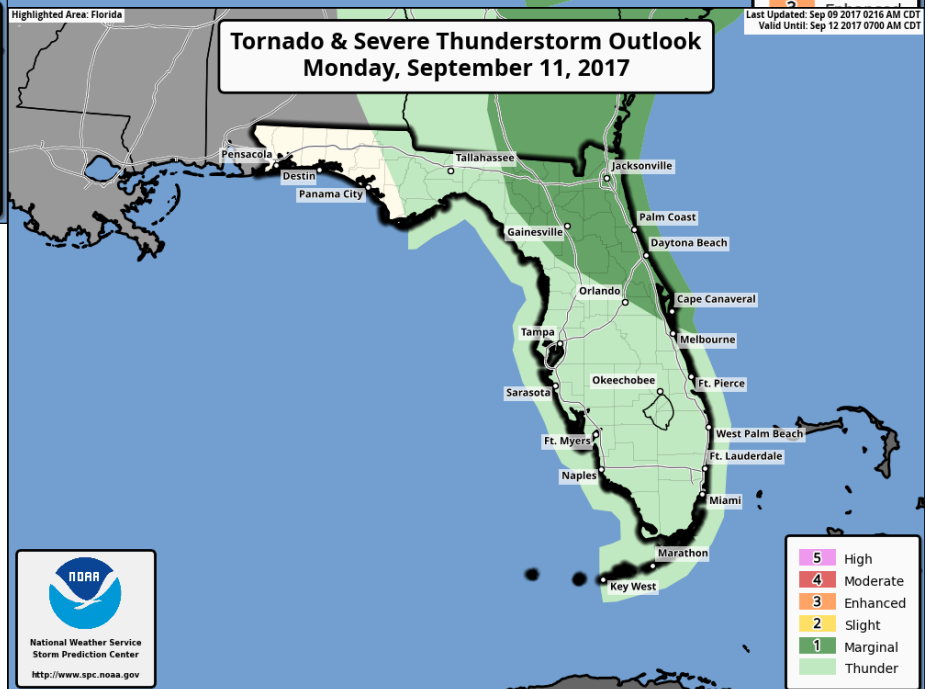
Tornado & Severe Thunderstorm Outlook Sunday, September 10, 2017

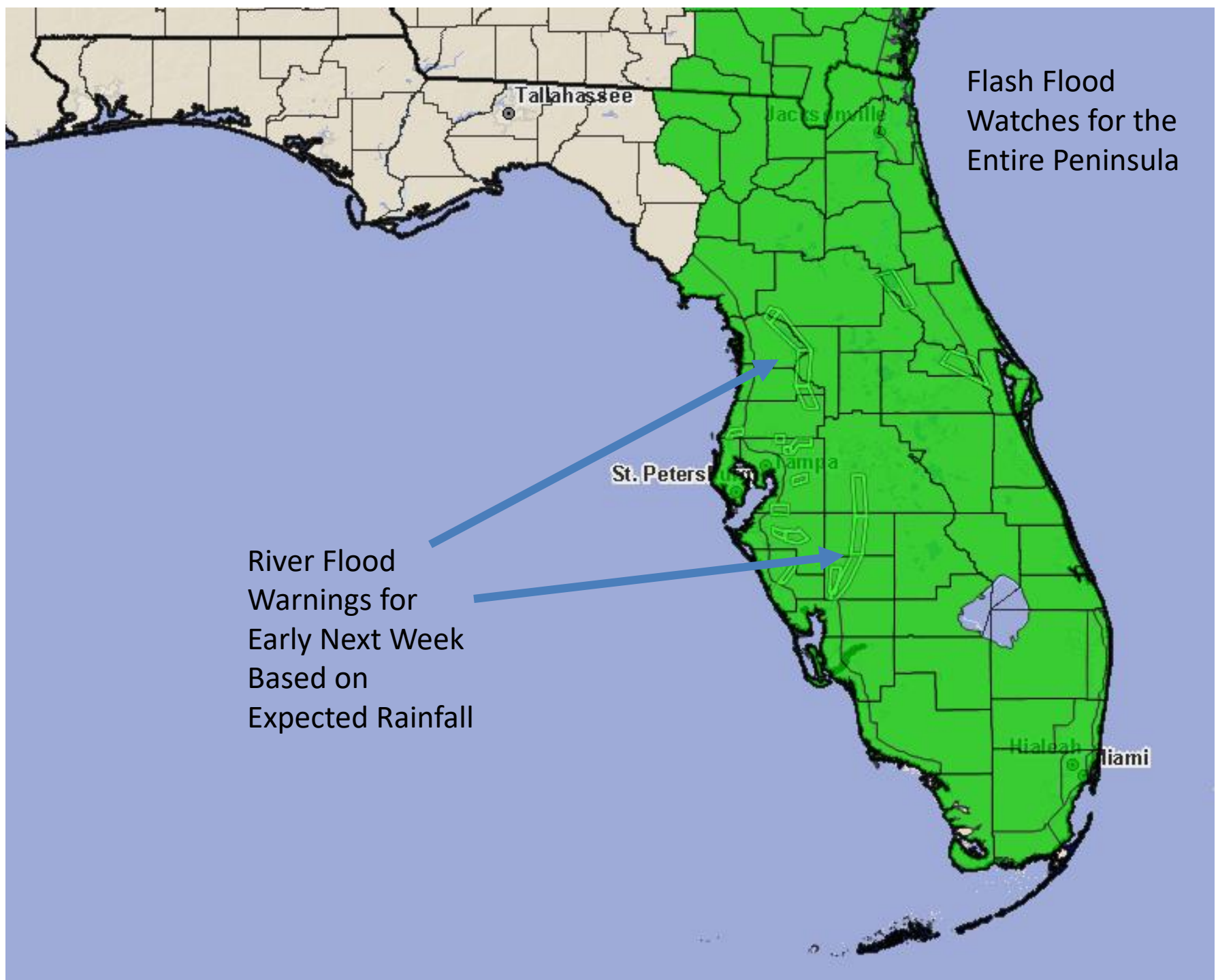
Last Updated: Sep 09 2017 1247 AM CDT
Valid Until: Sep 11 2017 0700 AM CDT



Tornado & Severe Thunderstorm Outlook Monday, September 11, 2017

Last Updated: Sep 09 2017 0216 AM CDT
Valid Until: Sep 12 2017 0700 AM CDT

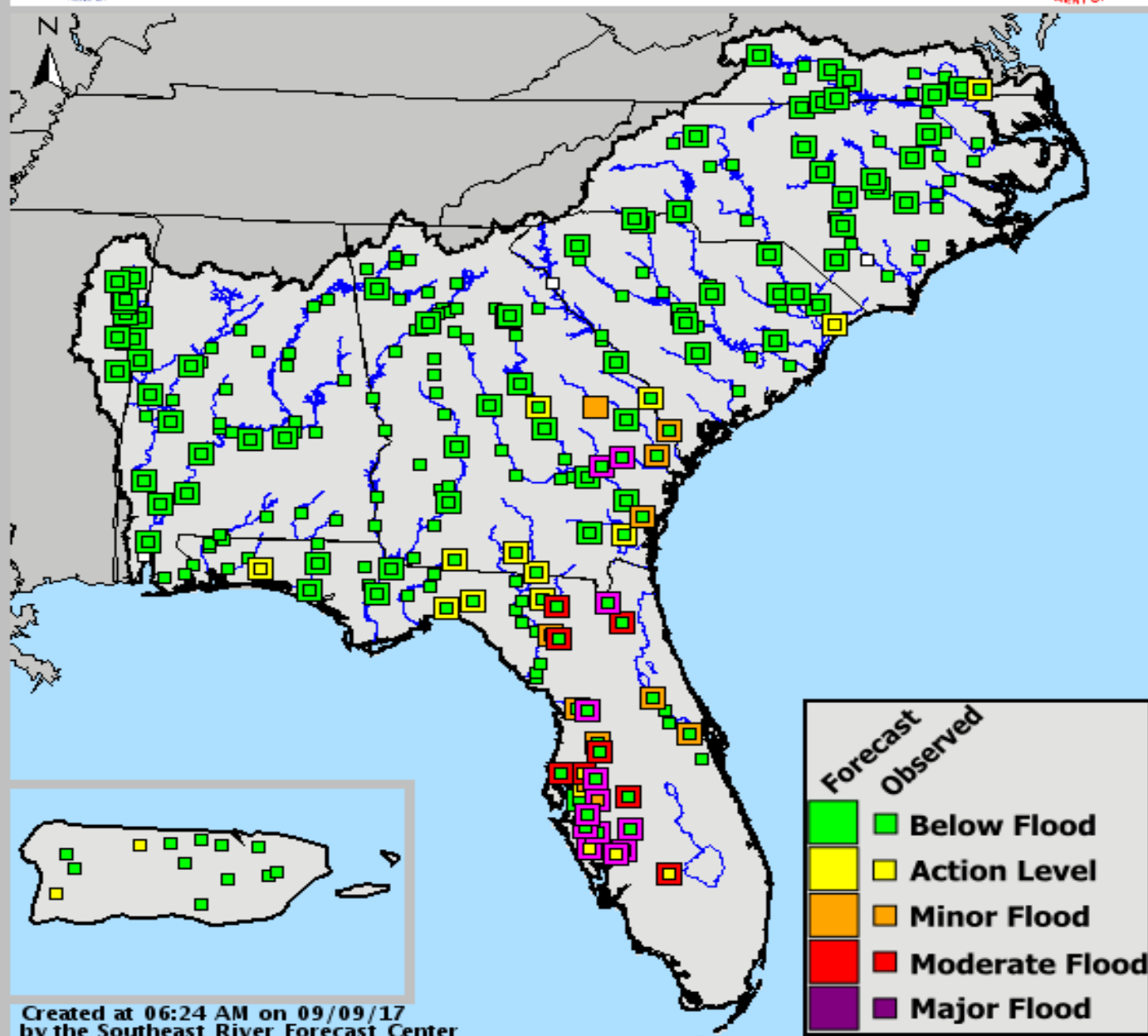






SERFC River Conditions

Valid: 09/09/2017 @ 06:24 AM



Hurricane Jose

5 AM EDT Sat Sep 09 2017

Position 17.5 N 60.3 W

Maximum Winds 150 mph

Gusts 185 mph

Movement WNW at 12 mph

Minimum Pressure 940 mb (27.75 inches)

Blue Marble basemap imagery courtesy NASA

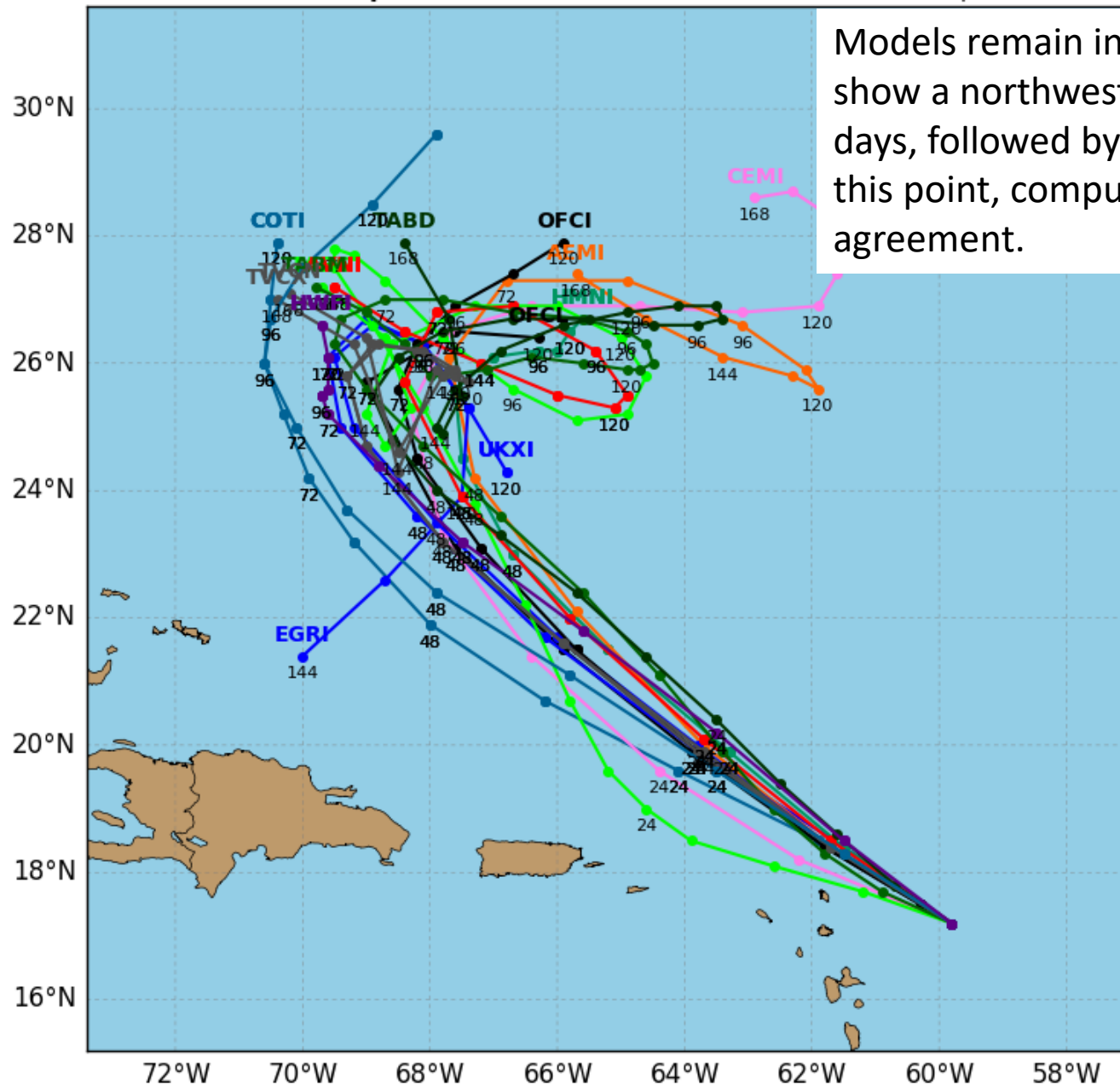
Satellite 10:47 AM UTC
6:47 AM EDT



Hurricane JOSE Model Track Guidance

Initialized at 06z Sep 09 2017

Levi Cowan - tropicaltidbits.com

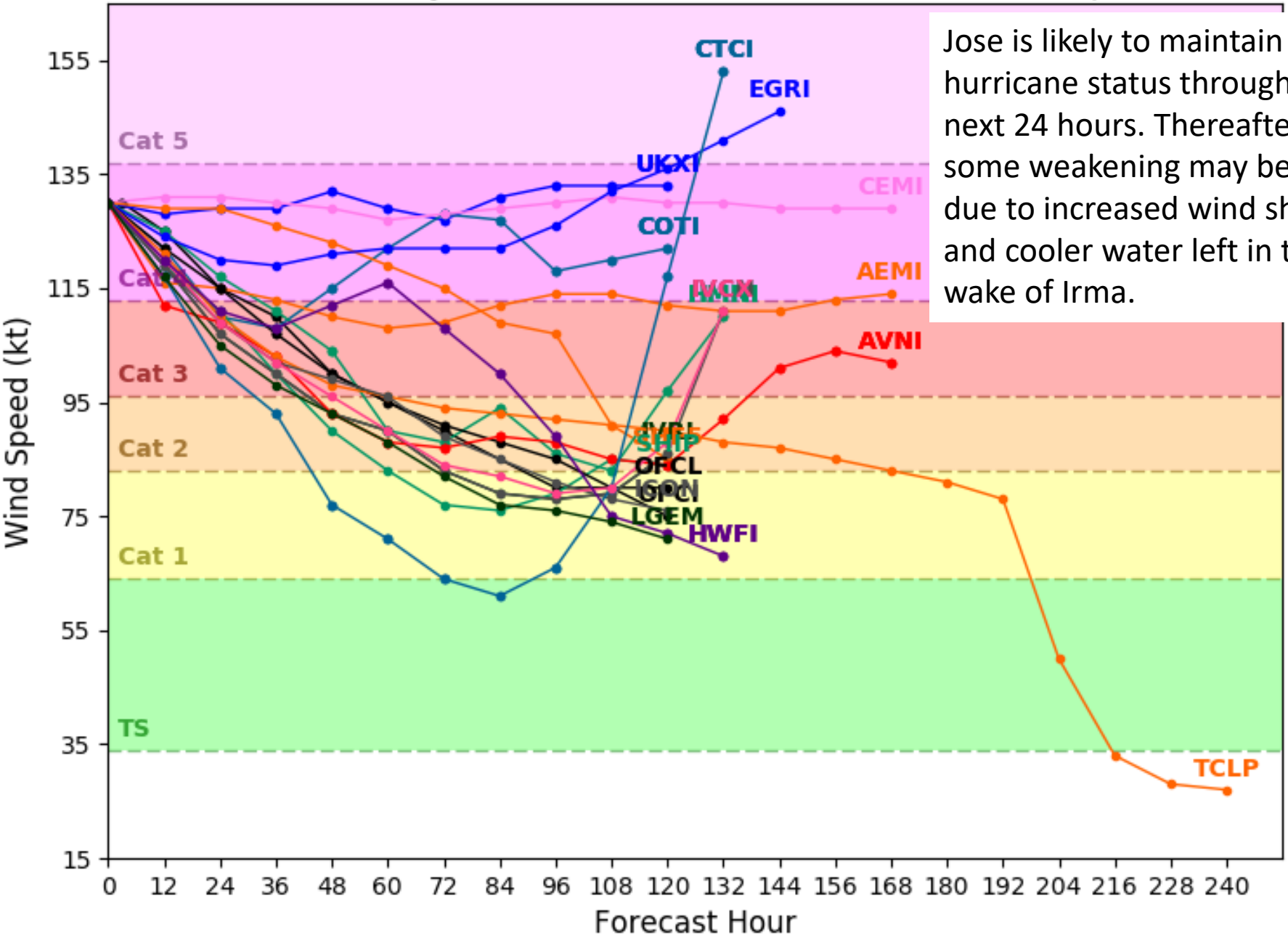


Models remain in good agreement and show a northwest track over the next 2 days, followed by a northward turn. After this point, computer models, are not in agreement.

Hurricane JOSE Model Intensity Guidance

Initialized at 06z Sep 09 2017

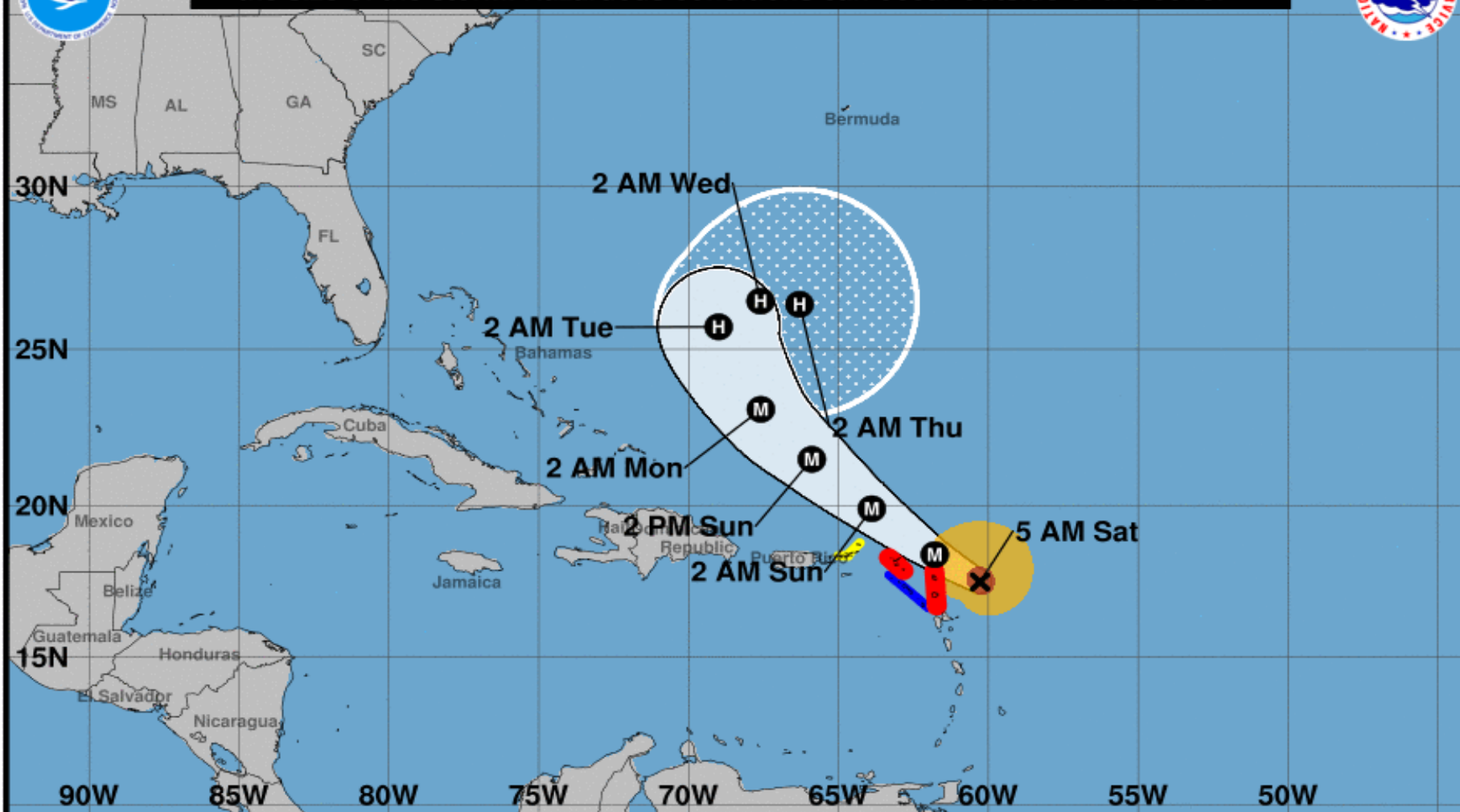
Levi Cowan - tropicaltidbits.com



Jose is likely to maintain major hurricane status through the next 24 hours. Thereafter, some weakening may begin due to increased wind shear and cooler water left in the wake of Irma.



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.



Hurricane Jose

Saturday September 09, 2017
5 AM AST Advisory 16
NWS National Hurricane Center

Current information: x

Center location 17.5 N 60.3 W
Maximum sustained wind 150 mph
Movement WNW at 13 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:

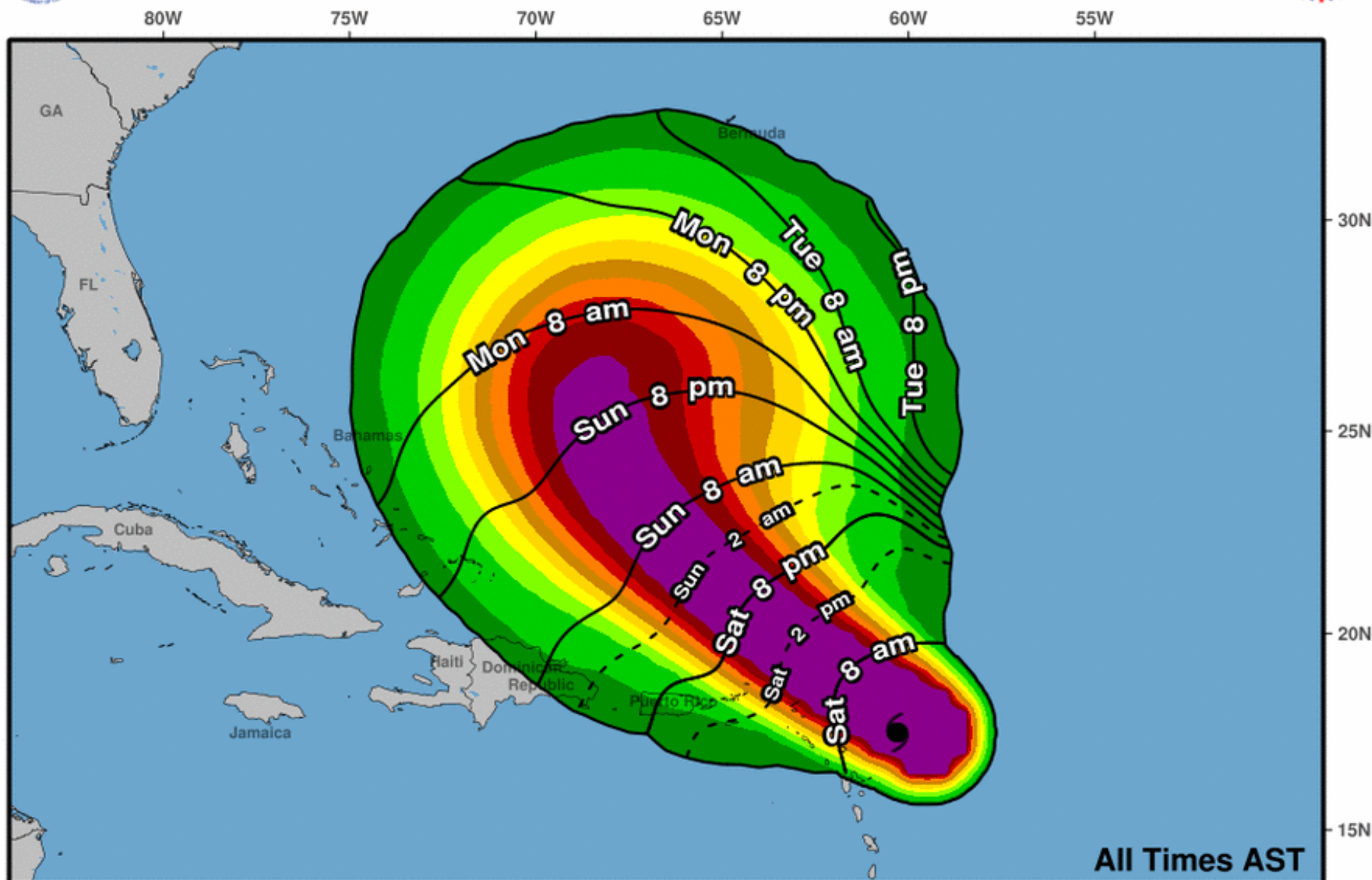
Hurricane Trop Stm

Current wind extent:

Hurricane Trop Stm



Earliest Reasonable Arrival Time of Tropical-Storm-Force Winds



Hurricane Jose
Sat. Sep. 9, 2017 5 am AST
Advisory 16

Storm Location &
Wind Speed (knots)
○ <34 ◐ 34-63 ◑ ≥64

Five-day chance of receiving sustained 34+ knot (39+ mph) winds



Tropical Storm Katia

5 AM EDT Sat Sep 09 2017

Position 20.3 N 97.5 W

Maximum Winds 40 mph

Gusts 50 mph

Movement W at 2 mph

Minimum Pressure 1001 mb (29.55 inches)

Blue Marble basemap imagery courtesy NASA

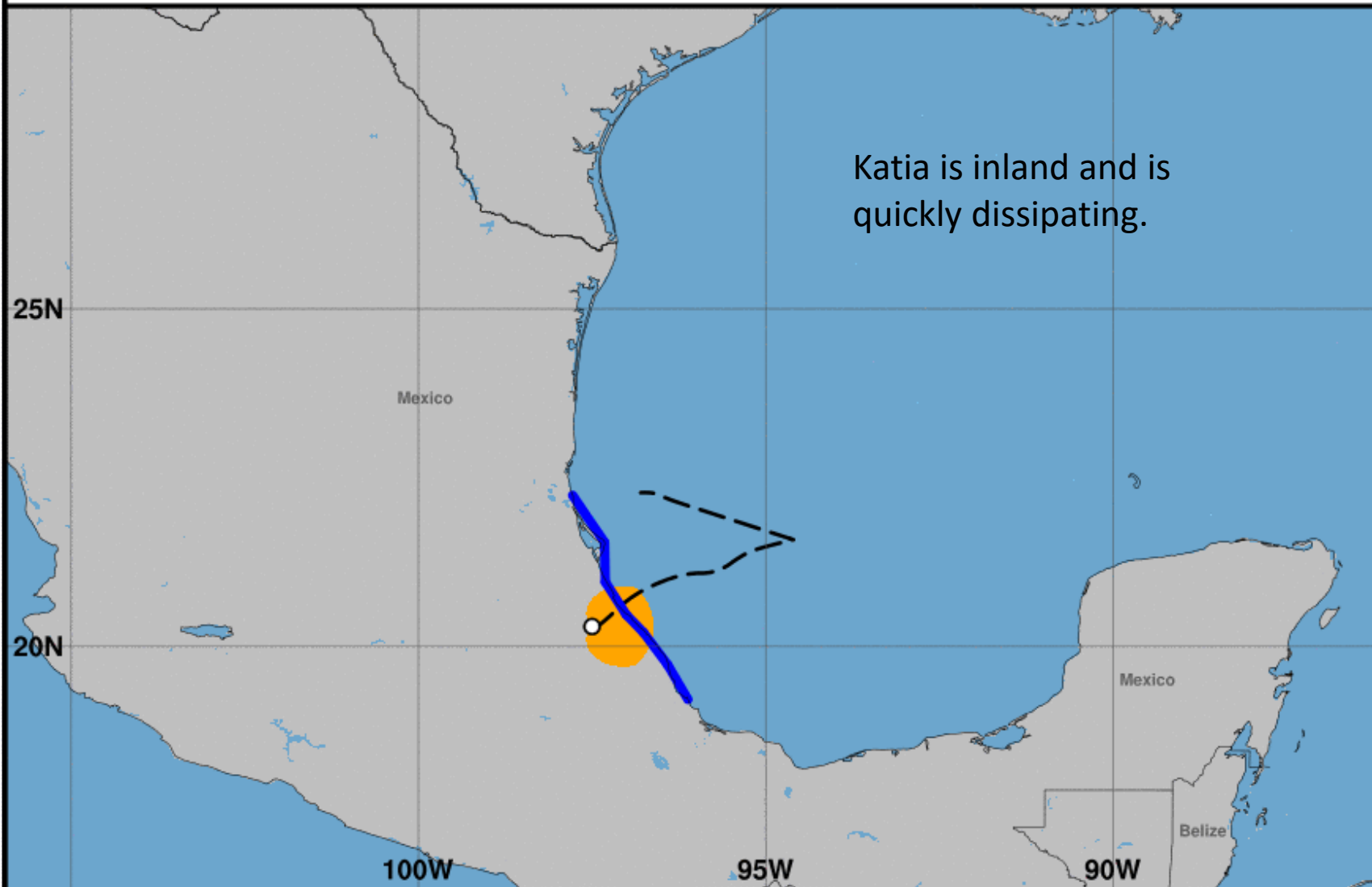
Satellite 11:00 AM UTC
7:00 AM EDT







Surface Wind Field of Tropical Storm Katia



Sustained Winds as of 400 AM CDT Sat Sep 09, 2017 Advisory Number 15





Watches:

-  Hurricane Watch
-  Tropical Storm Watch



Warnings:

-  Hurricane Warning
-  Tropical Storm Warning

Sustained Winds:

-  Hurricane Force
-  Tropical Storm Force

Position:

-  Center as of 400 AM CDT
-  Past Track



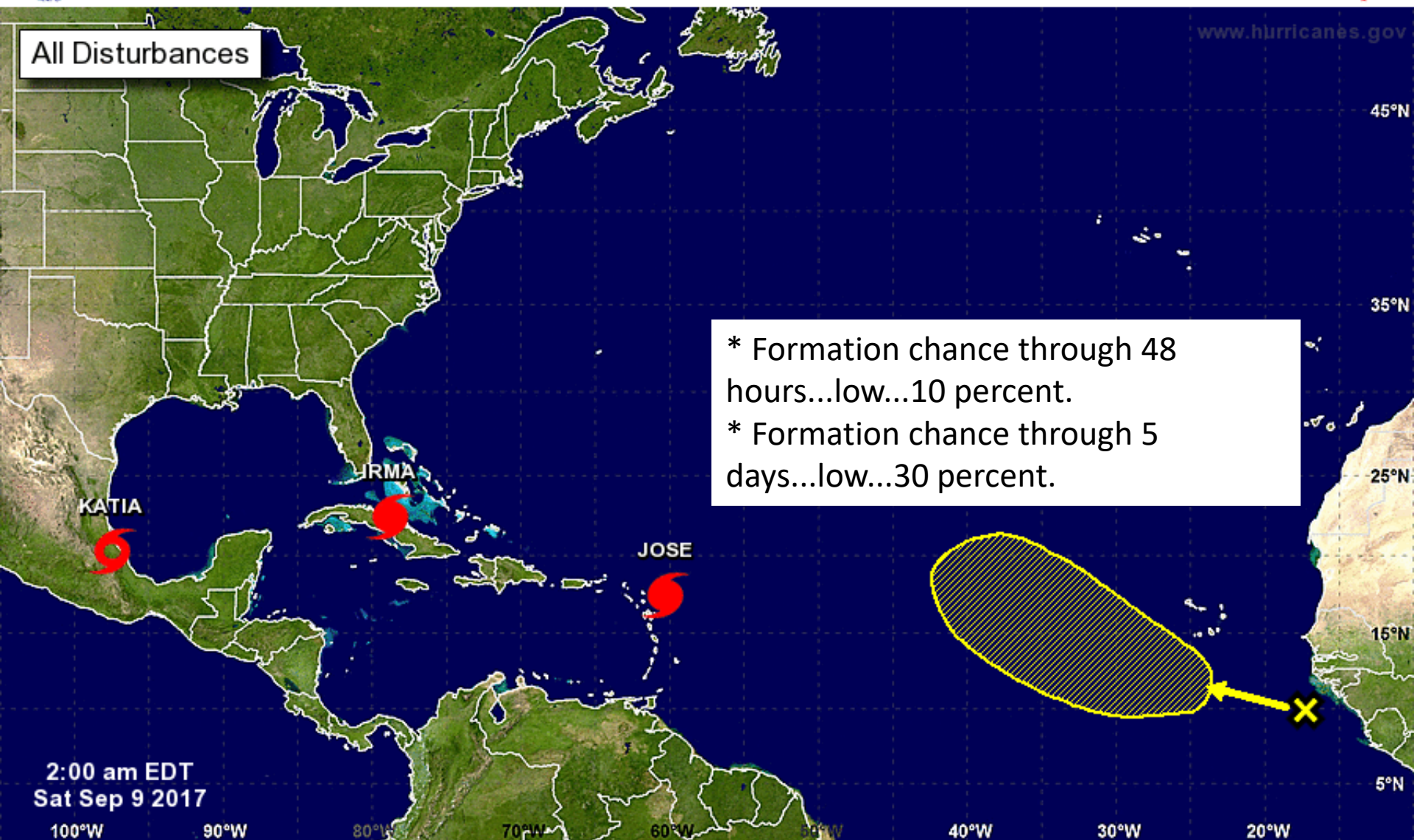
Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



www.hurricanes.gov

All Disturbances



* Formation chance through 48 hours...low...10 percent.

* Formation chance through 5 days...low...30 percent.

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

Tropical or Sub-Tropical Cyclone: ○ Depression ◉ Storm ◉ Hurricane

⊗ Post-Tropical Cyclone ✕ Remnants

Summary

- At 5am EDT Friday, Hurricane Irma was located about 245 miles south-southeast of Miami.
 - Maximum sustained winds are near 155 mph with higher gusts, making Irma a category 4 storm on the Saffir-Simpson Hurricane Wind scale.
 - Some fluctuations in intensity are likely during the next 24 hours, but Irma is forecast to remain a powerful hurricane due to low wind shear and favorable sea-surface temperatures.
 - Irma continues moving toward the west-northwest near 12 mph, and this general motion is expected to through this afternoon. Irma is then expected to slow down even more and begin a northward turn today and tomorrow.
 - The core of the hurricane will approach the Florida Keys and South Florida overnight and near sunrise tomorrow.
 - As a reminder, do not focus on the center line of the forecast cone. The center of Irma still has the potential to move anywhere within the cone of uncertainty. Models have still not come into complete agreement and there was a small west shift in the track overnight.
 - In addition, tropical Storm force winds extend out 195 miles from the center, and hurricane force 70 miles, meaning a large portion of the Peninsula may experience hurricane force winds and much of the state will at least feel tropical storm conditions.
-
- At 5am EDT Friday, Hurricane Jose was located 190 miles east-southeast of the Northern Leeward Islands, which is about 1,500 miles southeast of Miami, Florida.
 - Maximum sustained winds have increased to 150 mph, which is a Category 4 on the Saffir-Simpson Hurricane Wind Scale.
 - Jose is going to maintain intensity today, but is likely to begin to weaken by tomorrow gradually due to increasing wind shear and colder water in the wake of Irma.
 - A turn to the north and northeast along with a slower forward speed is expected early next week.
-
- At 5am EDT Friday, Tropical Storm Katia was located inland over Veracruz, Mexico, moving west at 2 mph.
 - Maximum sustained winds are near 40 mph, Katia has weakened since it has made landfall.
 - Katia is expected to dissipate later today over inland portions of Mexico.
-
- A tropical wave has moved off the coast of Africa and it is moving to the west at around 15 mph.
 - Environmental conditions appear to be conducive for gradual development of this system next week as it moves west-northwestward over the eastern Atlantic Ocean
 - There is currently a 30% chance of it becoming a tropical depression within the next 5 days, but these chances could increase.

Florida Outlook

- Nearly of the Florida Peninsula and Florida Big Bend lie within the NHC 5 day cone of error and could feel impacts from this system regardless of the eventual path.
- **Hurricane Warnings** in effect for all counties in the Peninsula south of Hernando, Sumter, Lake, and Volusia County. This includes Tampa, Orlando, Ft. Myers, and Miami.
- **Hurricane Watches** in effect for all areas of Northeast Florida and into the Big Bend, including Jacksonville, Gainesville, and Tallahassee.
- Wind impacts to South Florida and the Keys are already starting this morning, with winds increasing in Central Florida early tomorrow morning. Hurricane force winds could arrive in Southeast Florida early tomorrow morning.
- **Storm Surge watches or warnings** are in effect south of the Volusia/Brevard County Lines on the East Coast and south of the Suwannee River on the West Coast. This includes all of the Florida Keys.
- 8-12' of storm surge is currently being forecasted by the Hurricane Center for Southwest Florida, 5-10' for South Florida and the Keys, with 3-6' possible for the Treasure Coast and Sun Coast. **Numbers may increase for the West Coast and Big Bend of Florida.**
- In addition, rainfall amounts could reach as high as 10-15" with isolated higher totals of 20" possible in the Peninsula. Lesser amounts of 4-8" are expected in the Big Bend.
- Ocean swells from Irma have already reached South Florida and will produce a moderate to high risk of rip currents from today through the weekend.
- Hurricane Jose does not pose a threat to Florida within the next 5-7 days, but should be monitored.
- Hurricane Katia does not pose a threat to Florida.

Another briefing packet will be issued Saturday afternoon. For more information, visit the NHC website at www.hurricanes.gov.



TROPICAL UPDATE

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State Meteorological Support Unit

Florida Division of Emergency Management

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