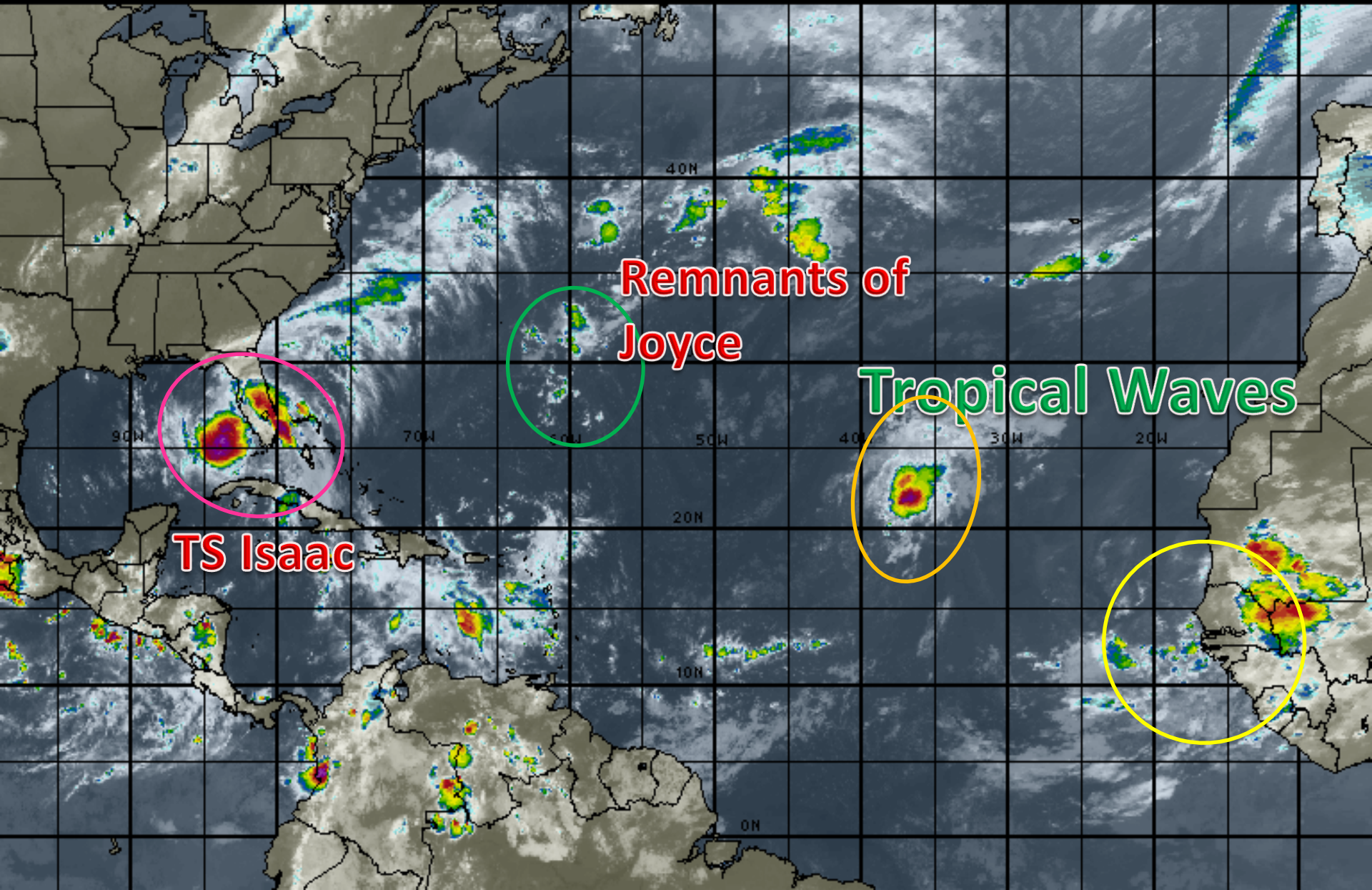


# Atlantic Basin Satellite Image

06:00 27-AUG-2012 GMT ©Copyright WSI Corporation <http://www.wsi.com>





# Tropical Storm Isaac

5 AM EDT Mon Aug 27 2012

Position 25.2 N 84.2 W

Maximum Winds 65 mph

Gusts 75 mph

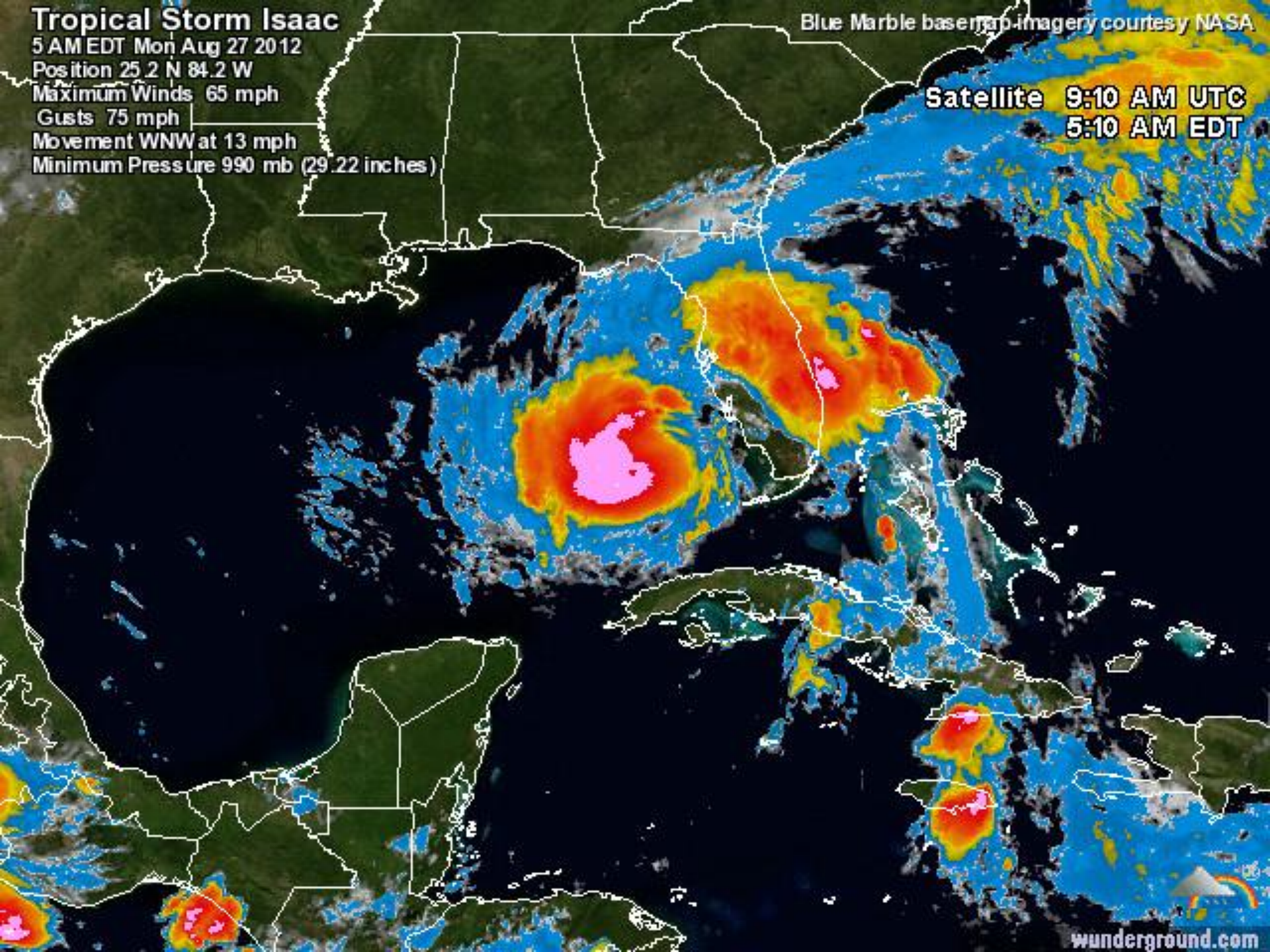
Movement WNW at 13 mph

Minimum Pressure 990 mb (29.22 inches)

Blue Marble basemap imagery courtesy NASA

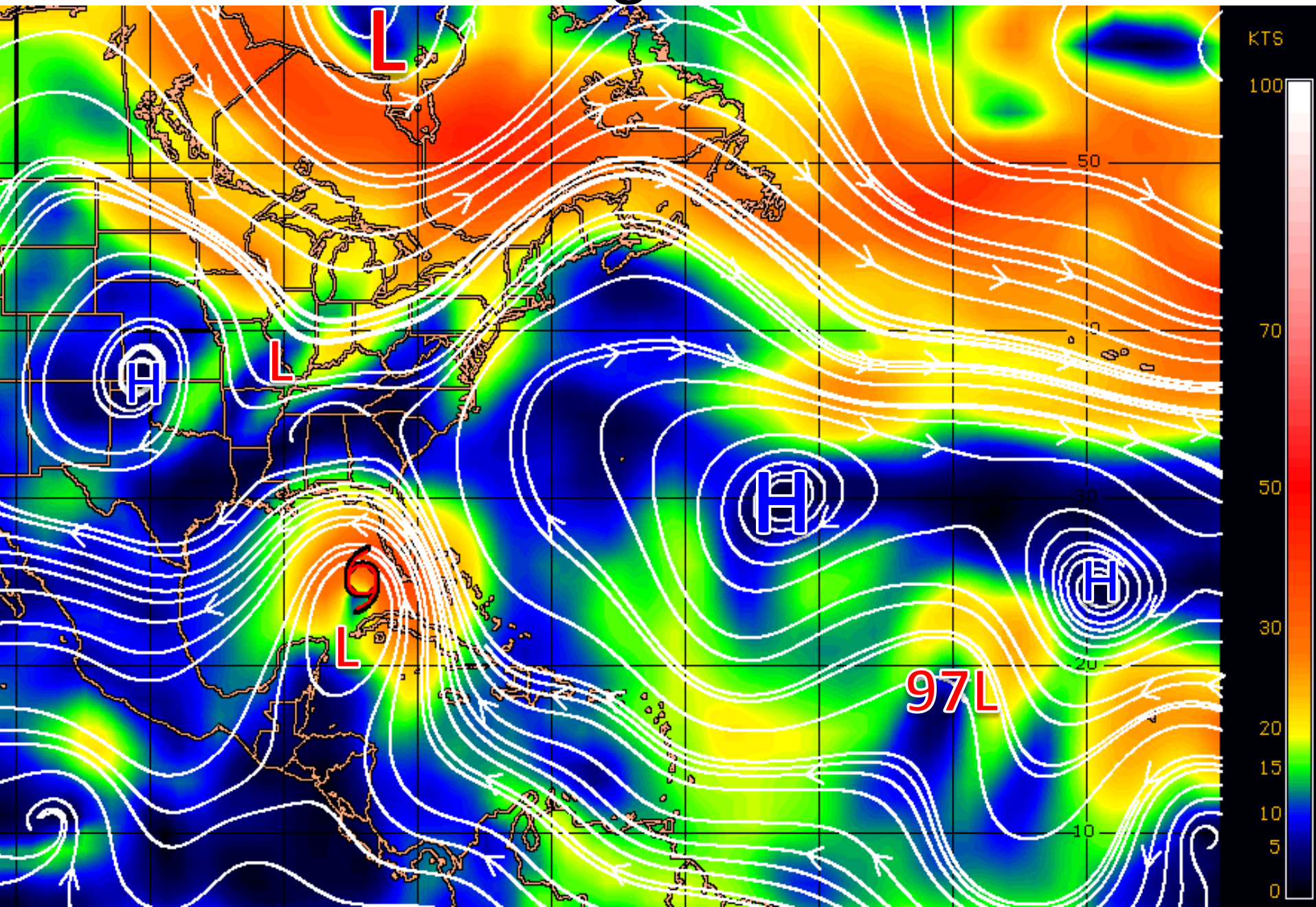
Satellite 9:10 AM UTC

5:10 AM EDT





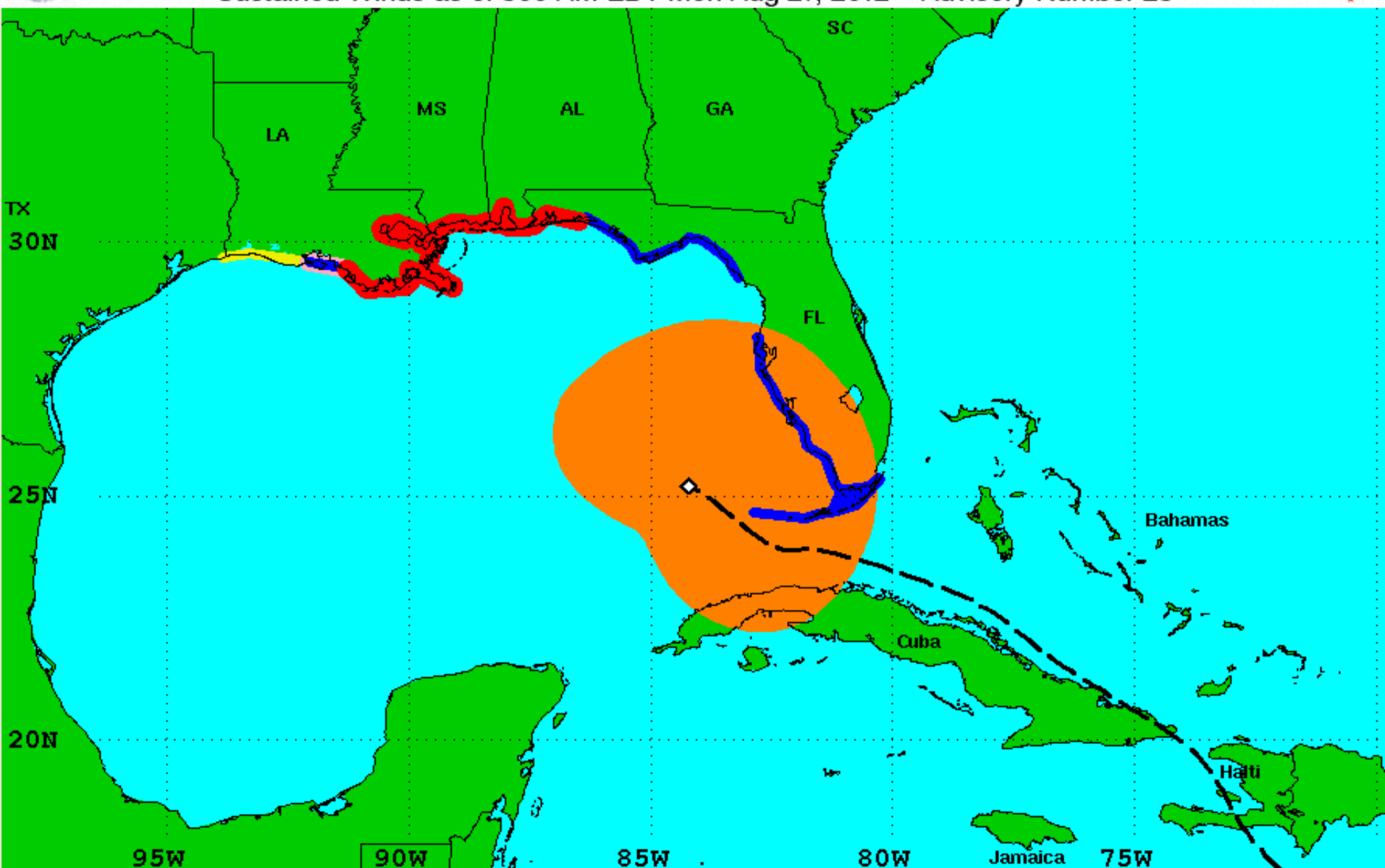
# Steering Currents





# Surface Wind Field of Tropical Storm Isaac

Sustained Winds as of 500 AM EDT Mon Aug 27, 2012    Advisory Number 25



## Watches:

- Hurricane Watch
- Tropical Storm Watch

## Warnings:

- Hurricane Warning
- Tropical Storm Warning

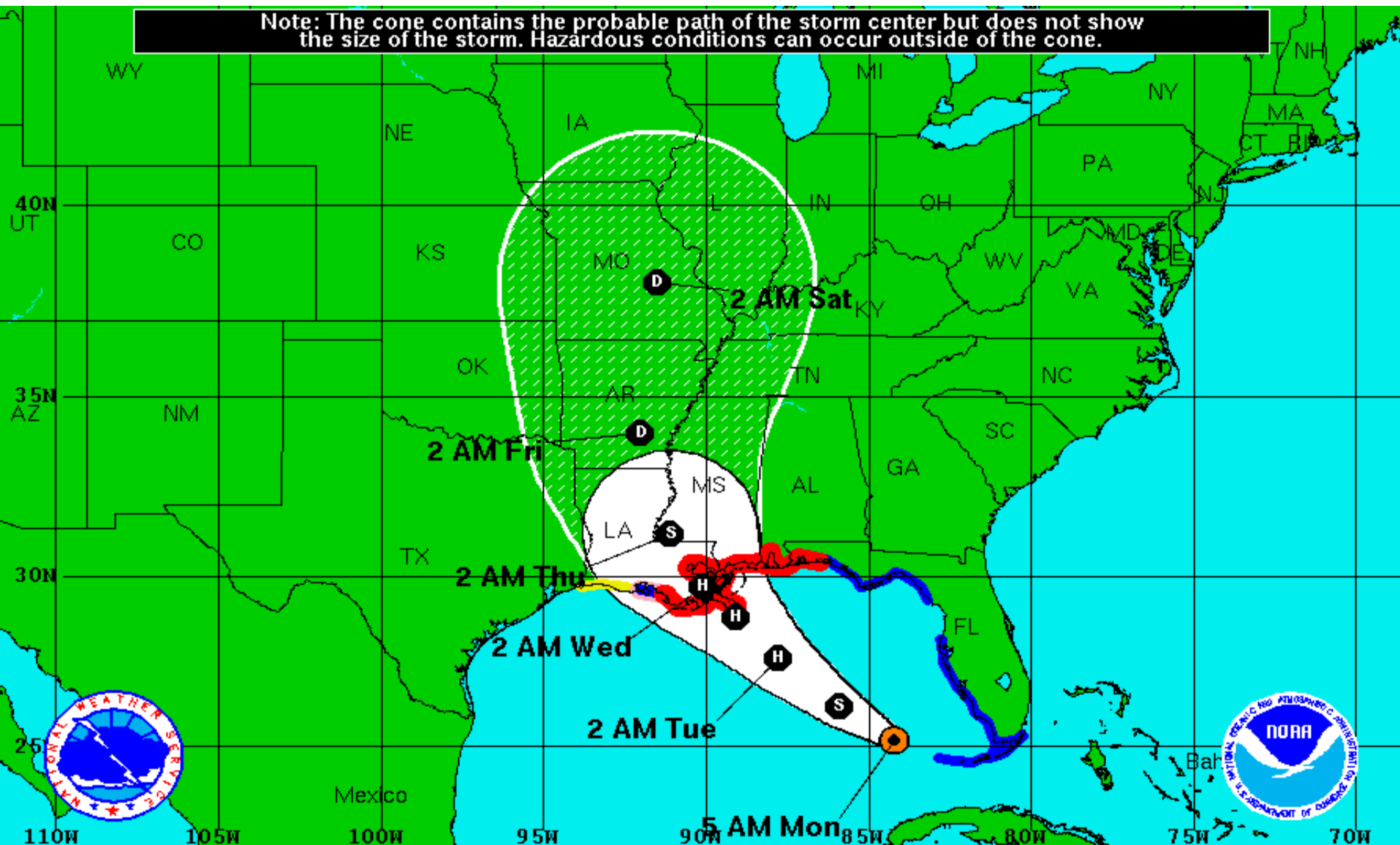
## Sustained Winds:

- Hurricane Force
- Tropical Storm Force


## Position:



- Center as of 500 AM EDT
- 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 Isaac**  
*Monday August 27, 2012*  
 5 AM EDT Advisory 25  
 NWS National Hurricane Center

**Current Information:**   
 Center Location 25.2 N 84.2 W  
 Max Sustained Wind 65 mph  
 Movement WNW 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  Day 4-5

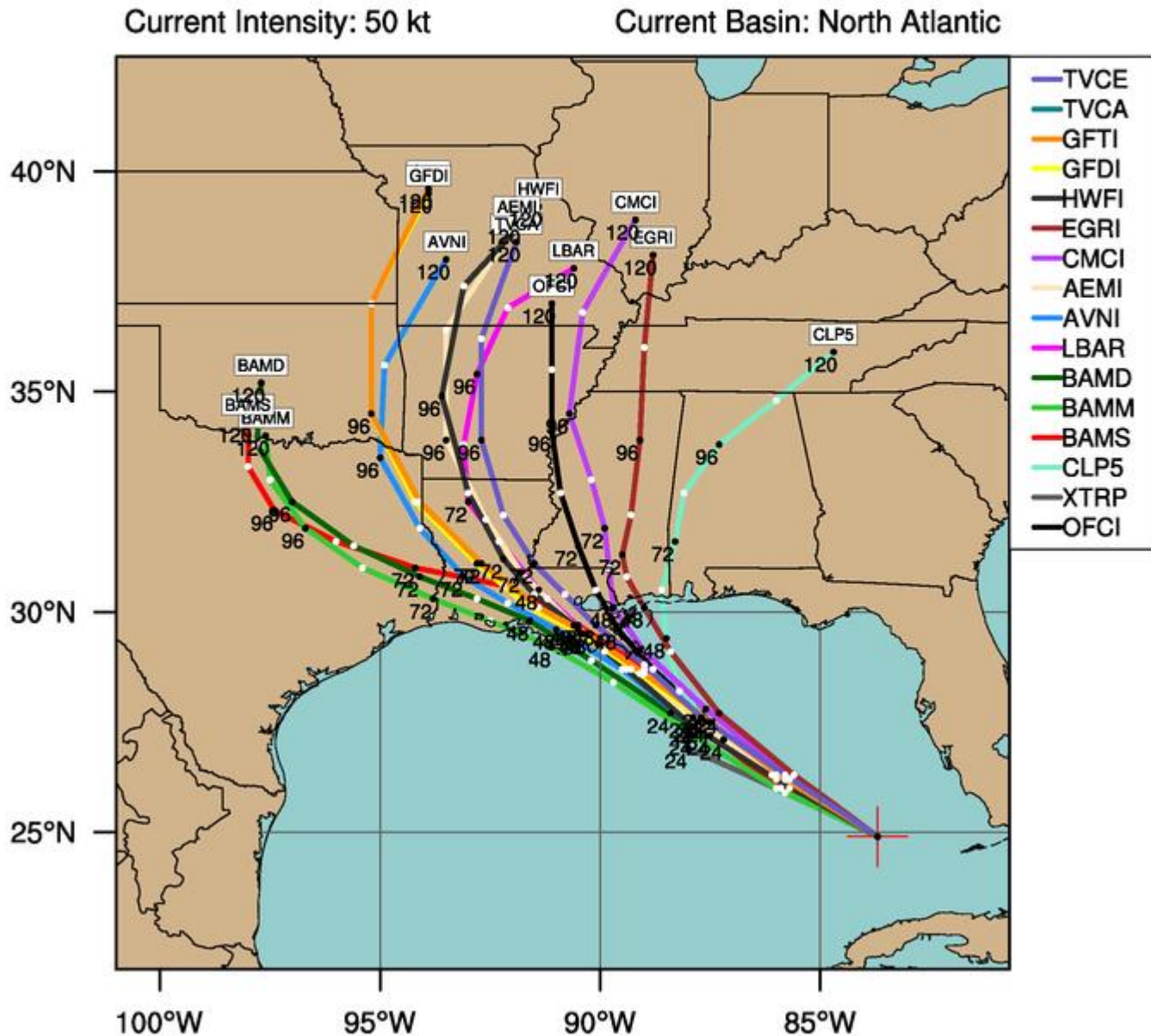
**Watches:**  
 Hurricane  Trop.Storm

**Warnings:**  
 Hurricane  Trop.Storm



# TROPICAL STORM ISAAC (AL09)

Early-cycle track guidance initialized at 0600 UTC, 27 August 2012



# Tropical Storm Isaac

5 AM EDT Mon Aug 27 2012

Models: Points 12 hours apart

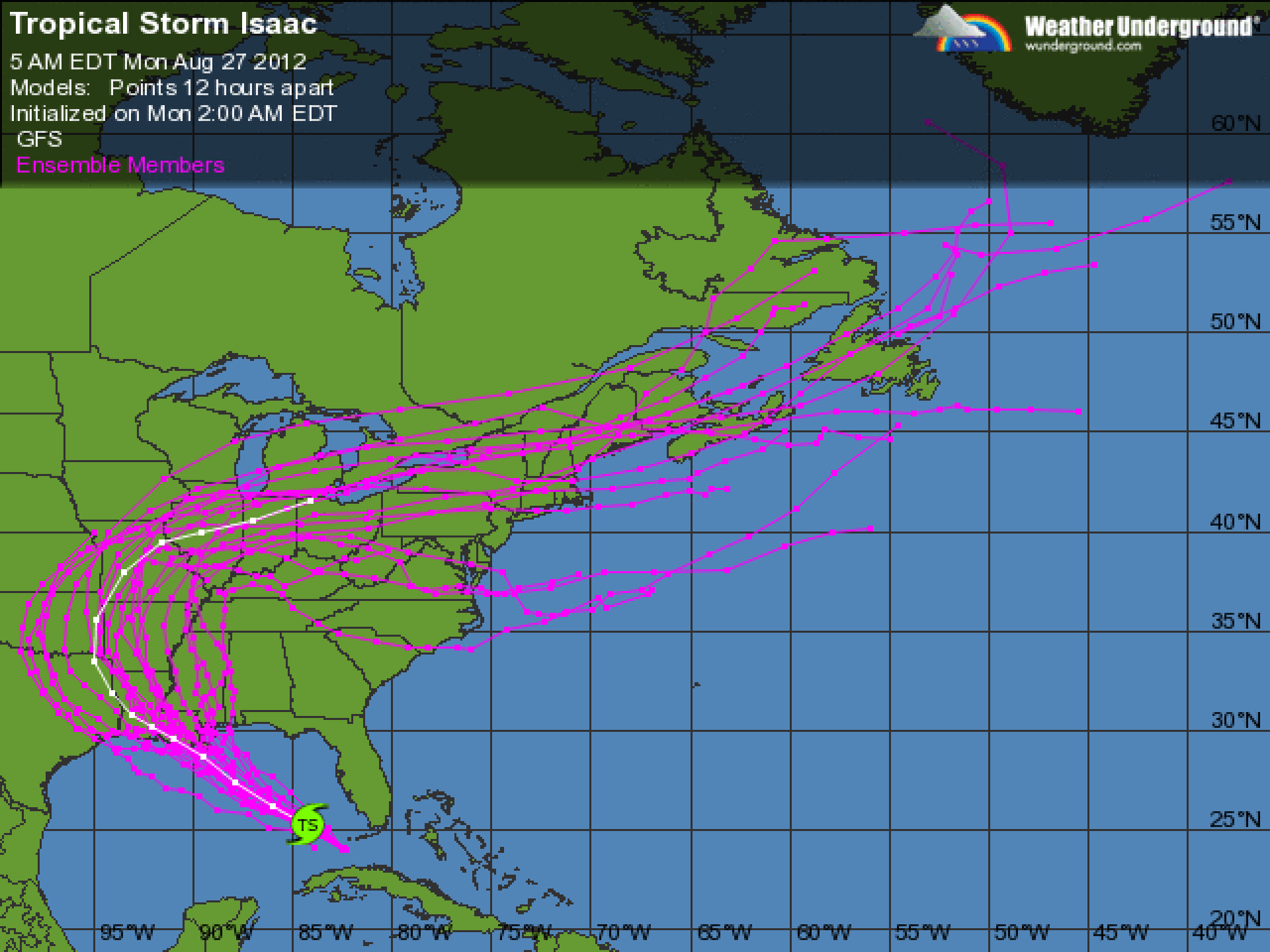
Initialized on Mon 2:00 AM EDT

GFS

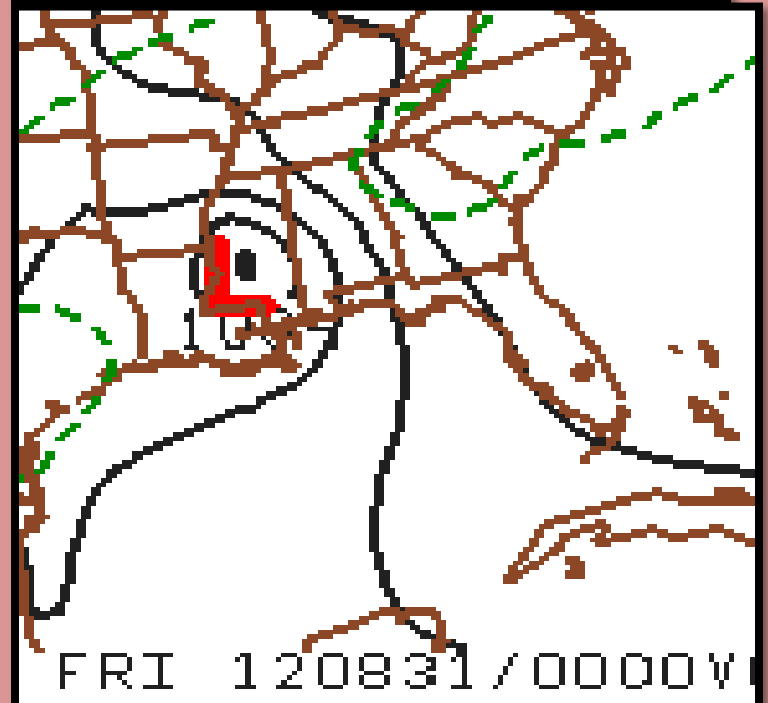
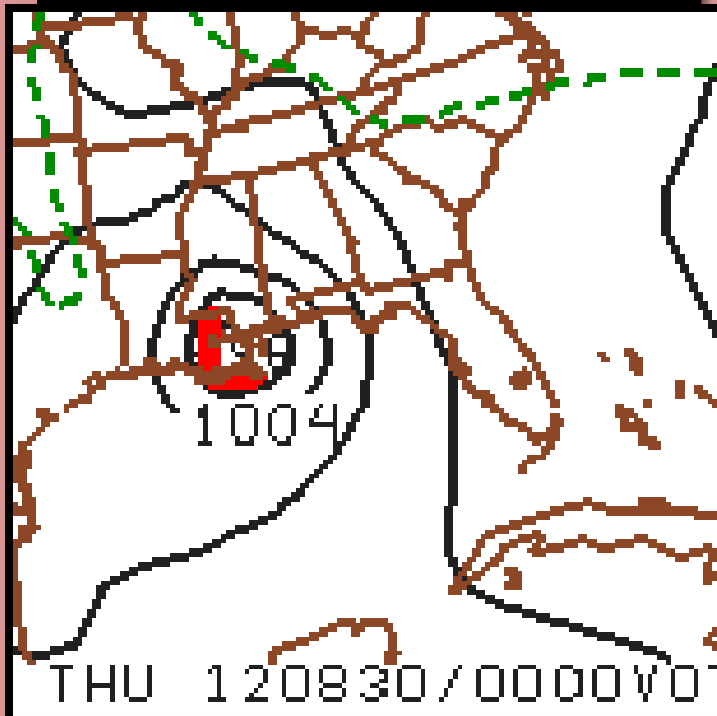
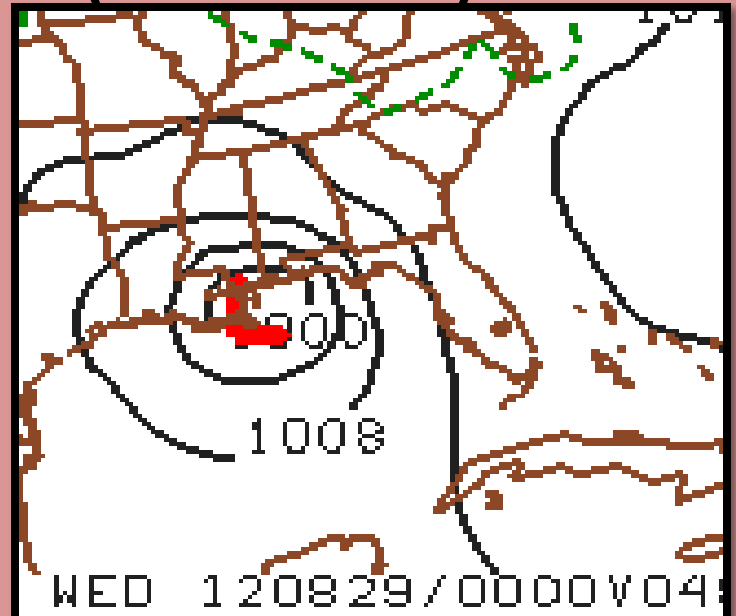
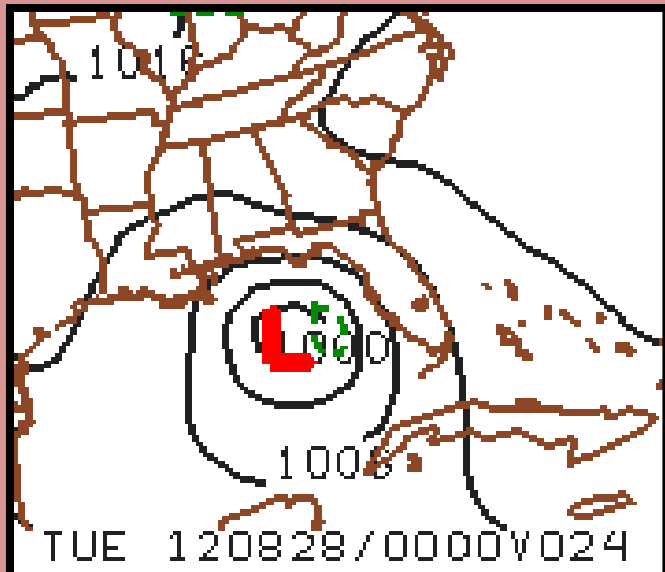
Ensemble Members





Weather Underground®  
wunderground.com

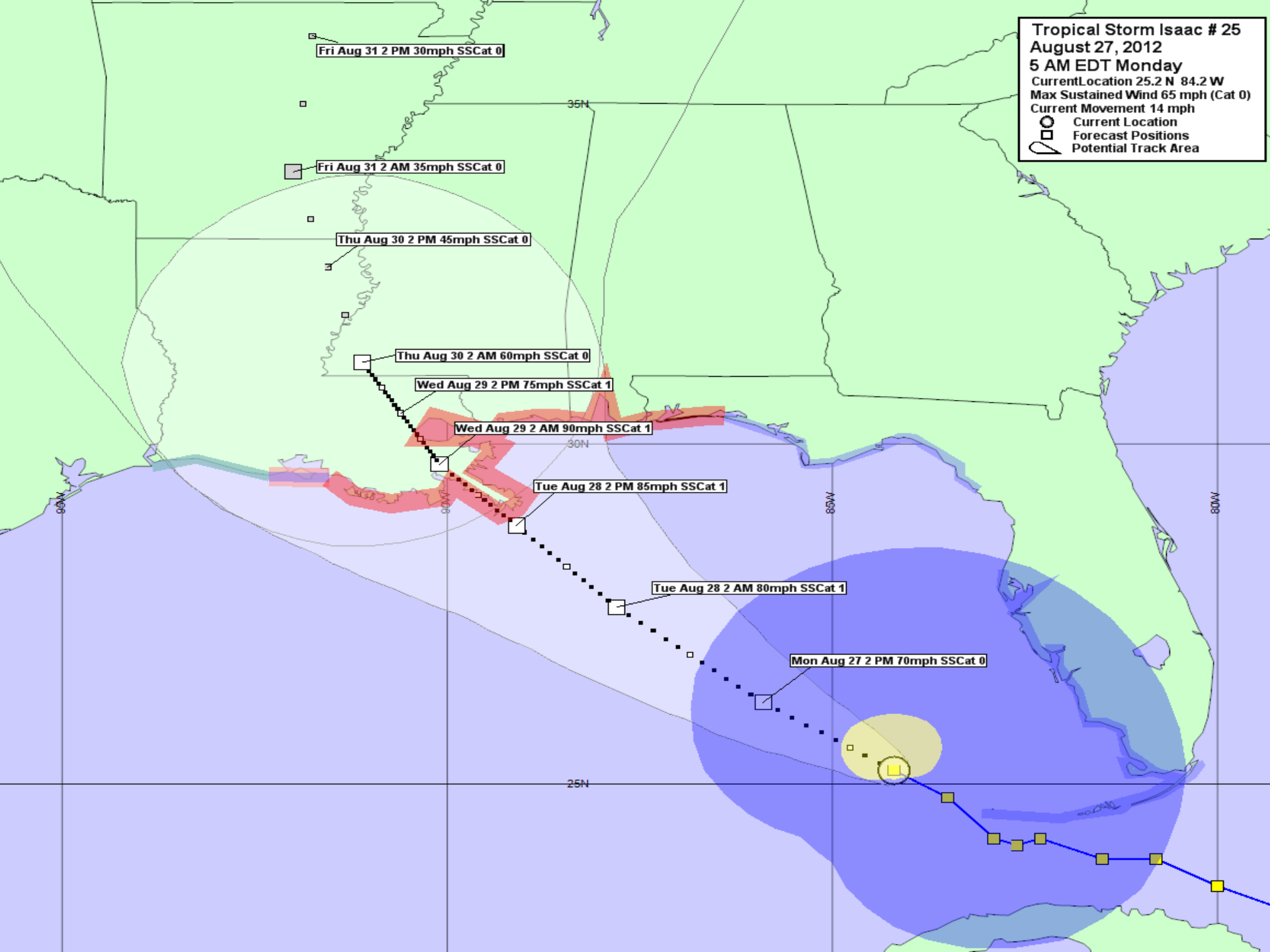


# European Model (ECMWF)





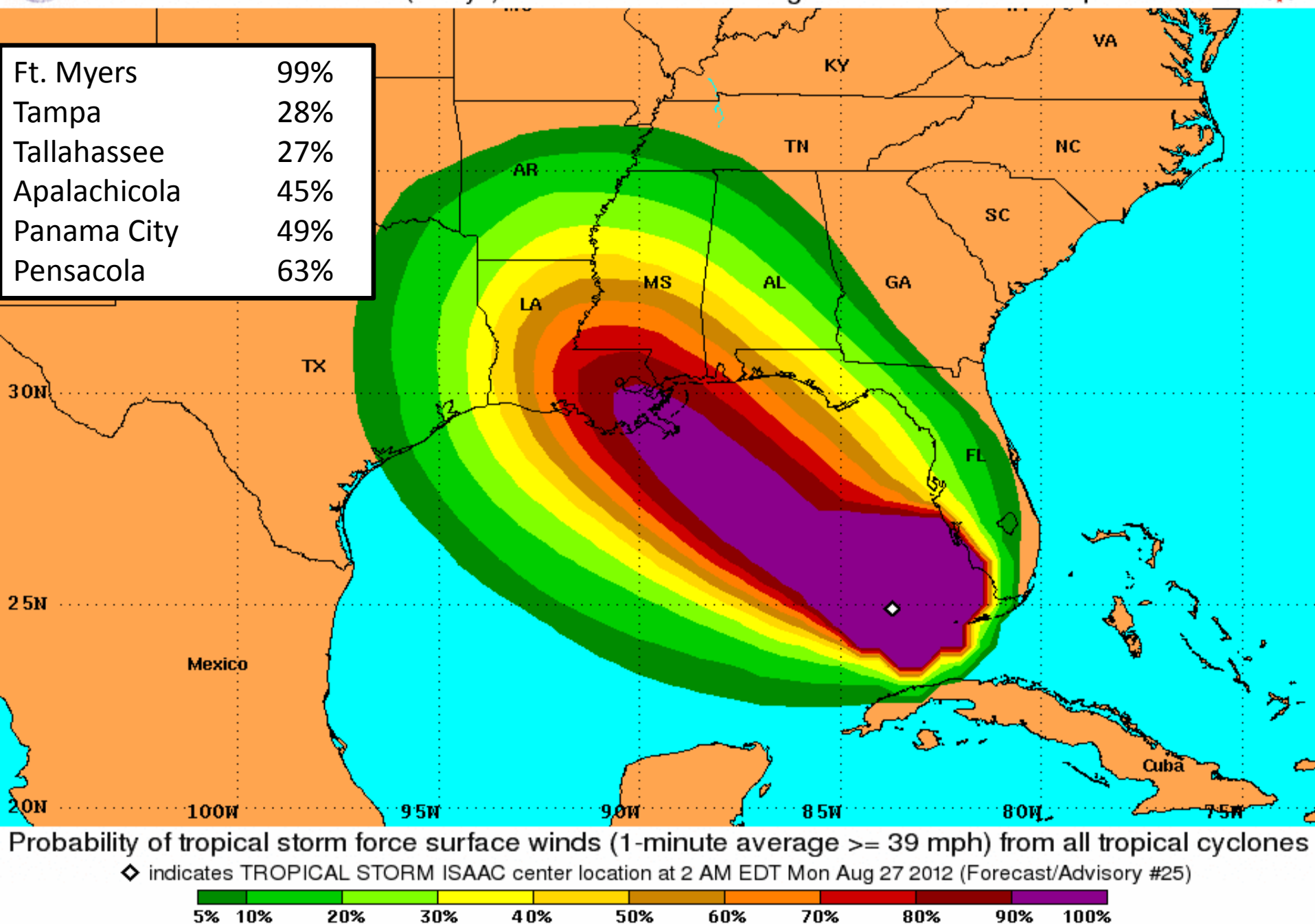
**Tropical Storm Isaac # 25**  
**August 27, 2012**  
**5 AM EDT Monday**  
Current Location 25.2 N 84.2 W  
Max Sustained Wind 65 mph (Cat 0)  
Current Movement 14 mph  
 Current Location  
 Forecast Positions  
 Potential Track Area





# Tropical Storm Force Wind Speed Probabilities

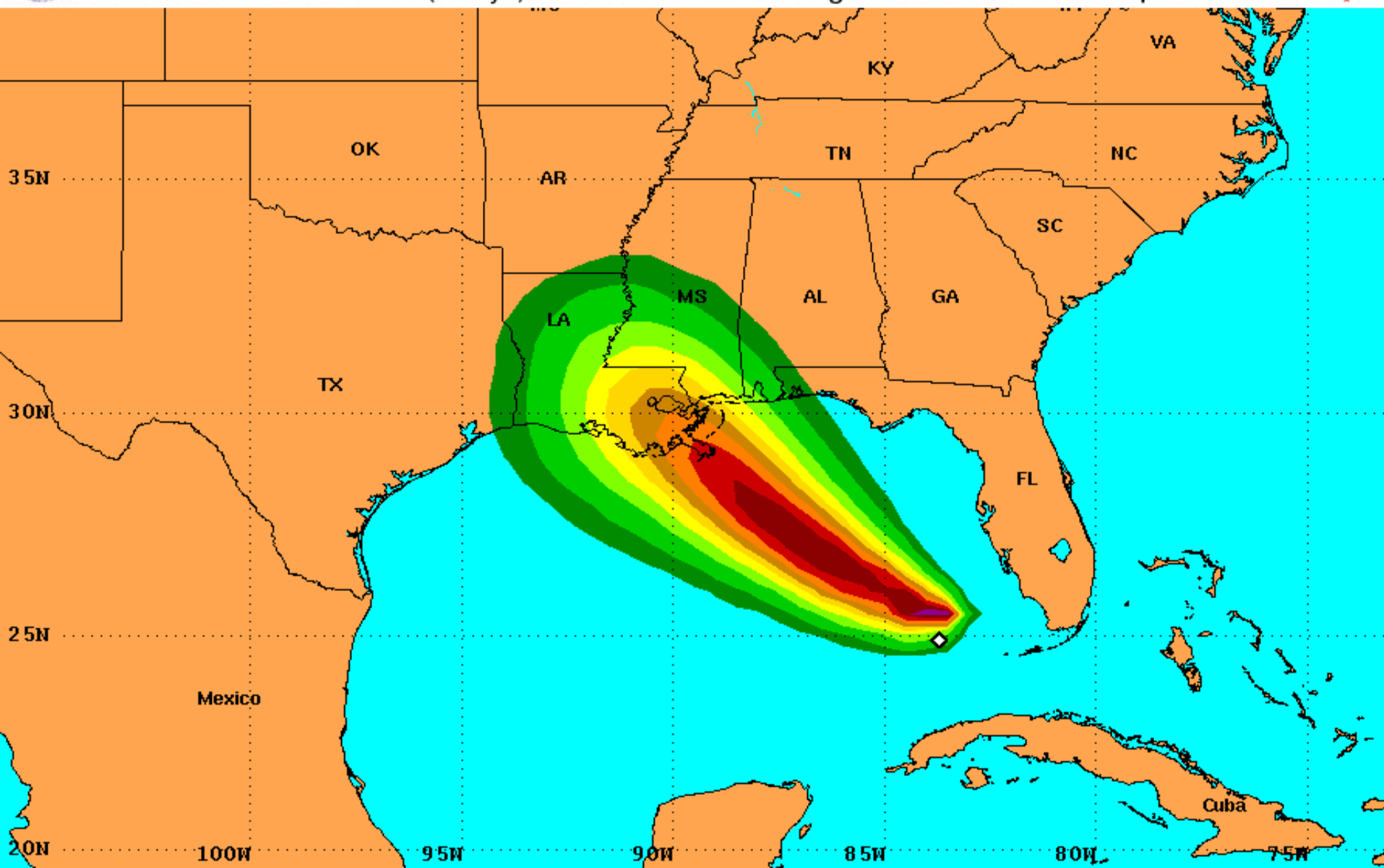
For the 120 hours (5 days) from 2 AM EDT Mon Aug 27 to 2 AM EDT Sat Sep 1





# 50-knot Wind Speed Probabilities

For the 120 hours (5 days) from 2 AM EDT Mon Aug 27 to 2 AM EDT Sat Sep 1



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

◇ indicates TROPICAL STORM ISAAC center location at 2 AM EDT Mon Aug 27 2012 (Forecast/Advisory #25)

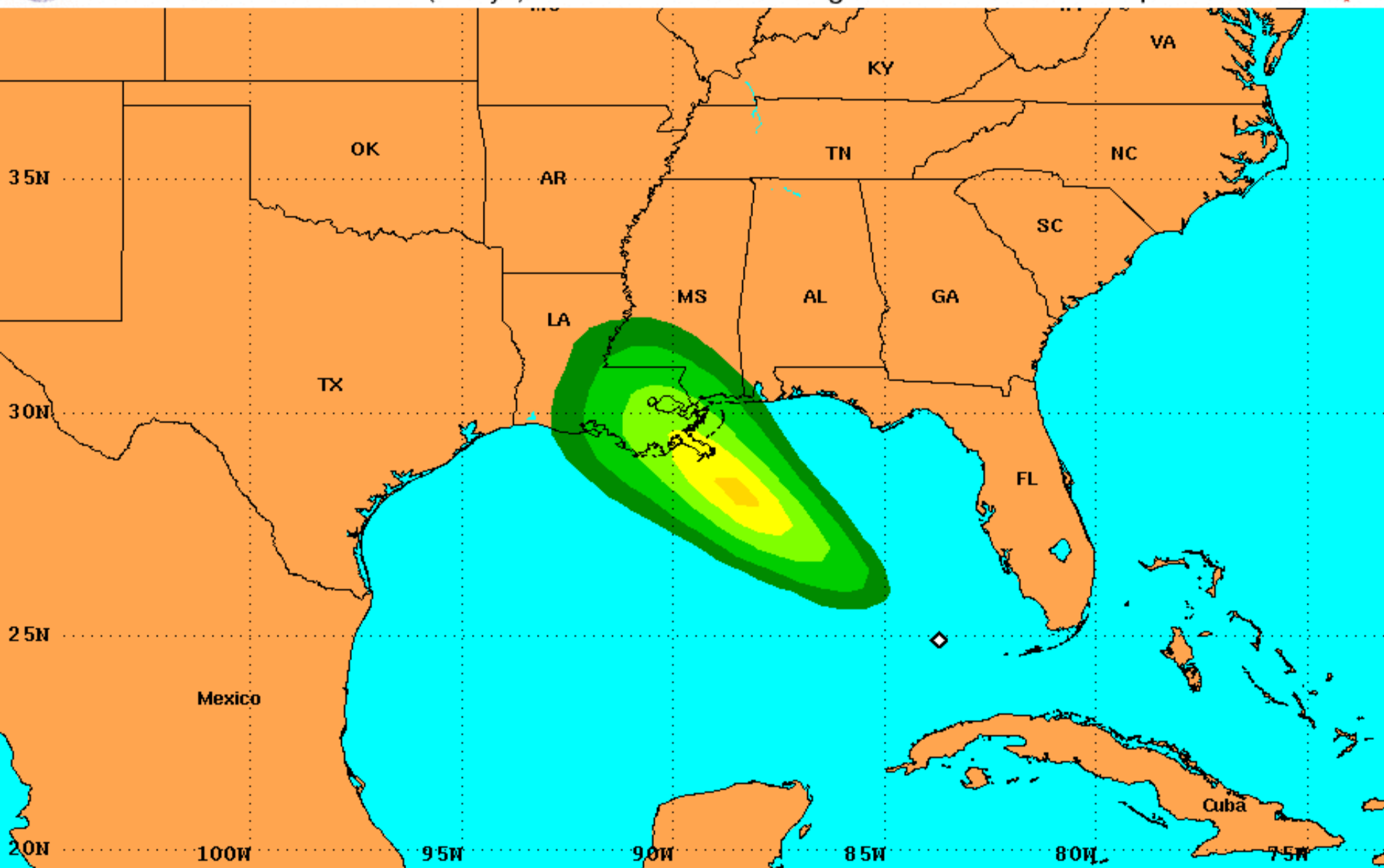






# Hurricane Force Wind Speed Probabilities

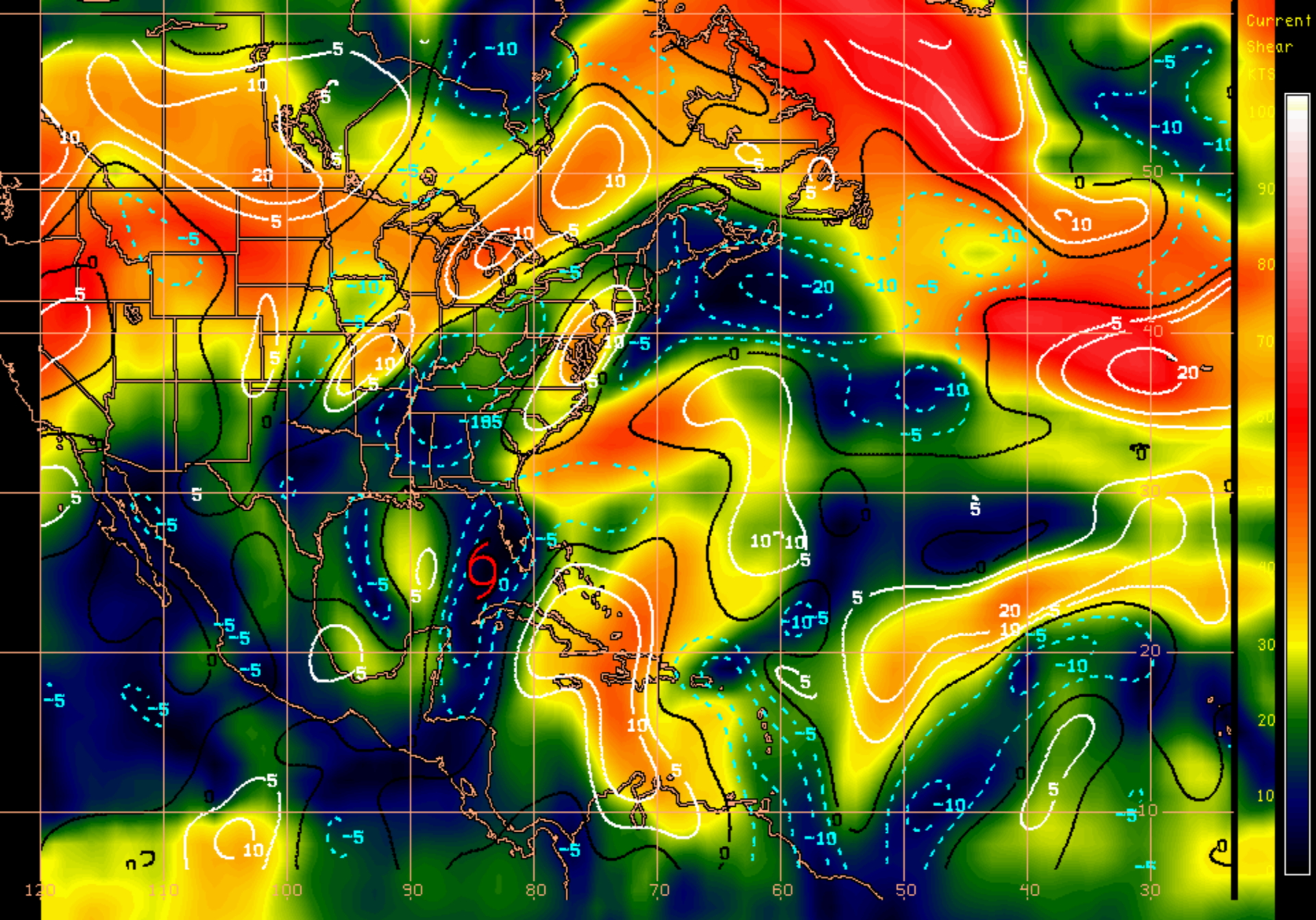
For the 120 hours (5 days) from 2 AM EDT Mon Aug 27 to 2 AM EDT Sat Sep 1



Probability of hurricane force surface winds (1-minute average  $\geq 74$  mph) from all tropical cyclones

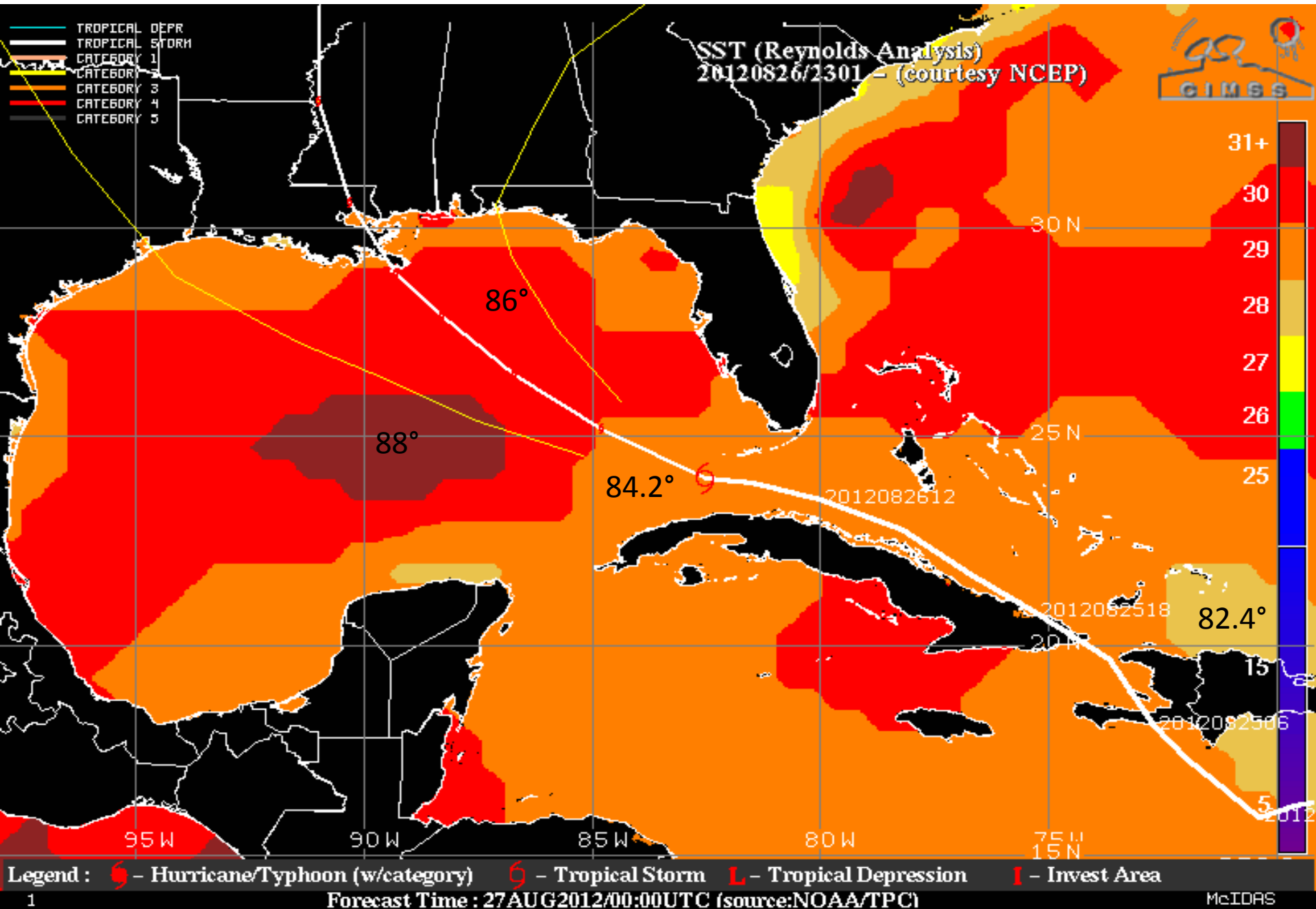
◇ indicates TROPICAL STORM ISAAC center location at 2 AM EDT Mon Aug 27 2012 (Forecast/Advisory #25)





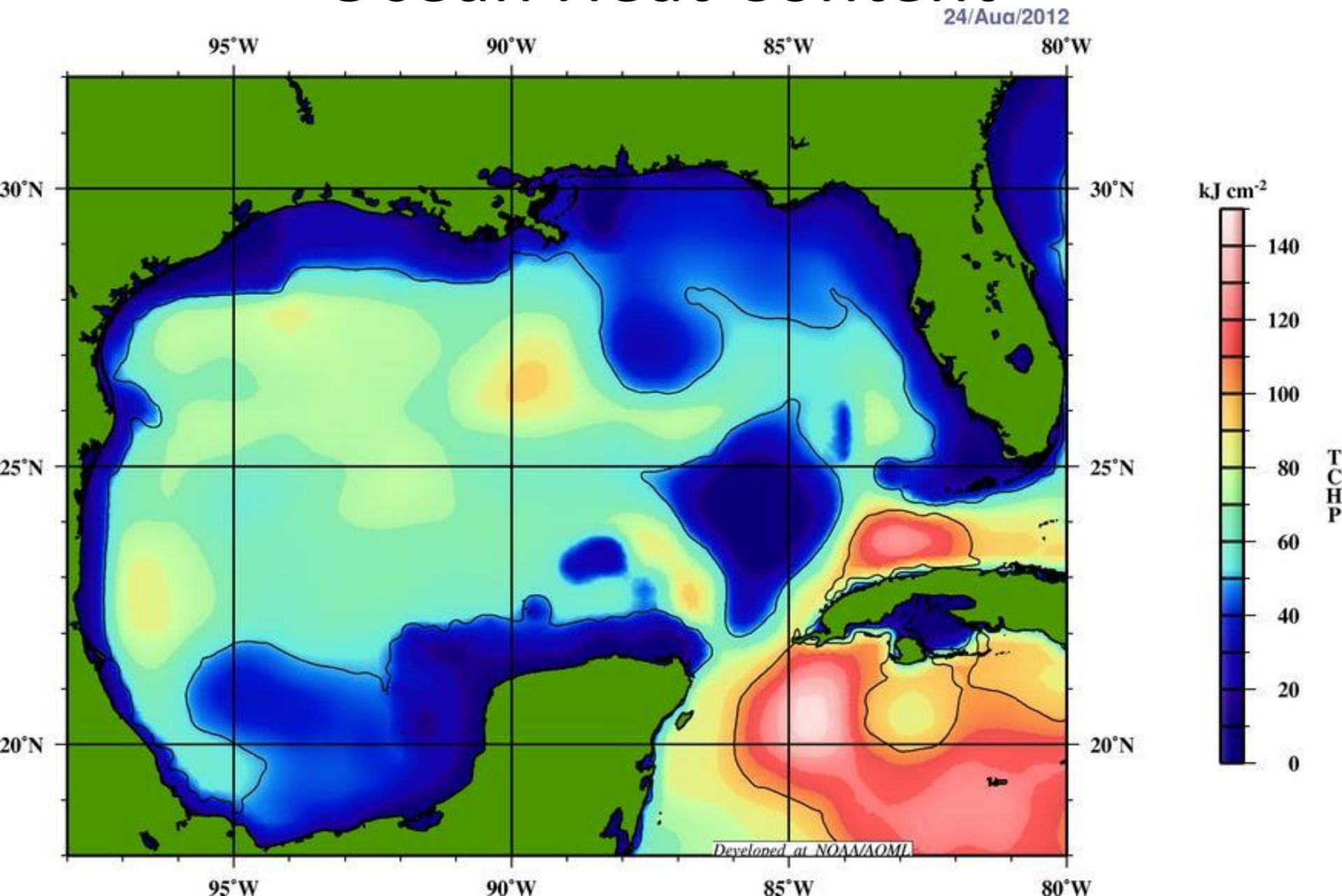
Shear Tendency (KTS) Over Past 24 Hours: Increasing — Decreasing ----

# Sea Surface Temperatures Around Isaac





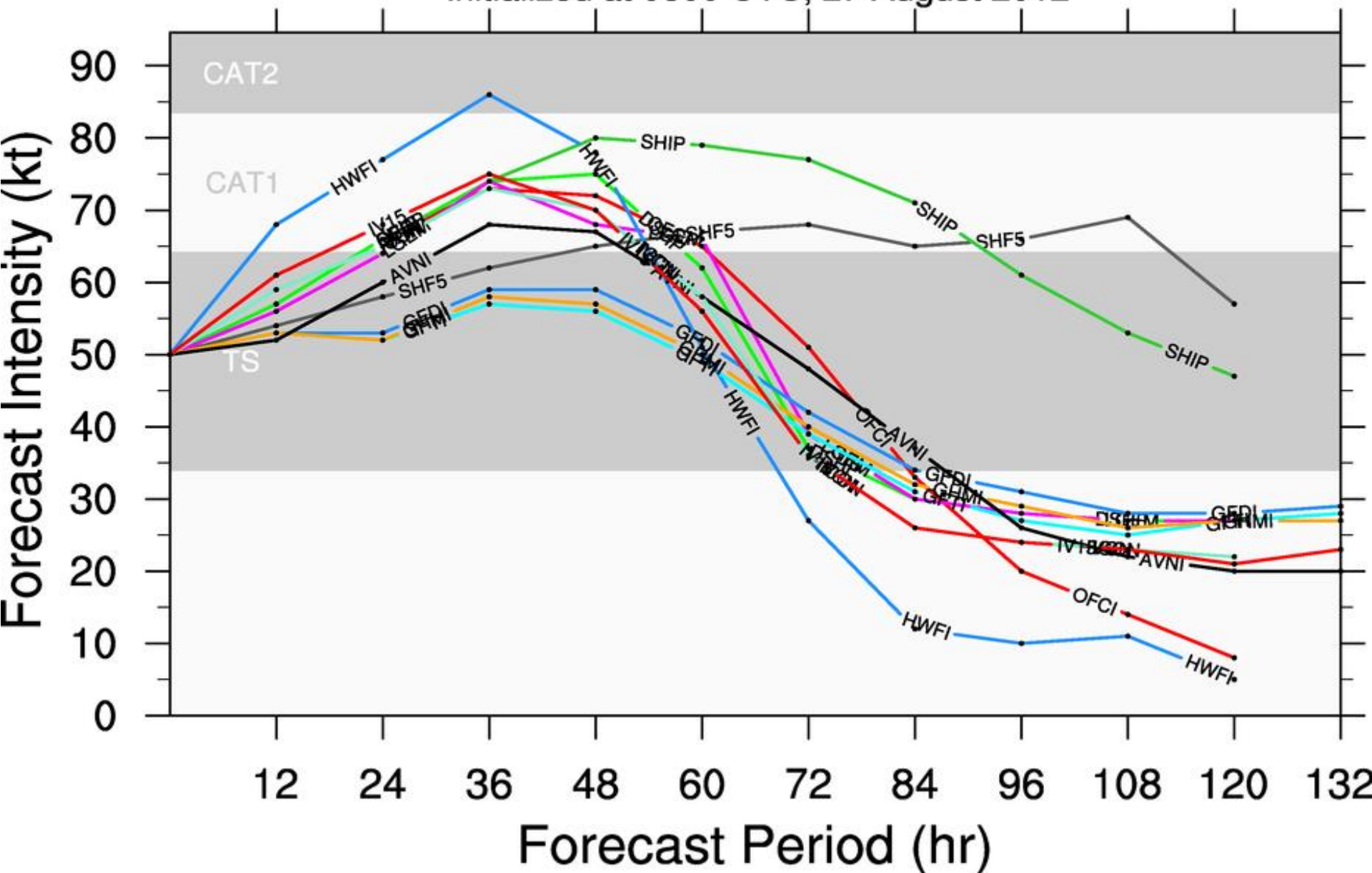
# Ocean Heat Content



# TROPICAL STORM ISAAC (AL09)

## Early-cycle intensity guidance

initialized at 0600 UTC, 27 August 2012





Intensity (Maximum Wind Speed) Probability Table  
Tropical Storm Isaac Advisory Number 25  
5:00 AM EDT Aug 27 2012



Wind Range (mph)	Forecast Time						
	12 hour for 2 PM Mon	24 hour for 2 AM Tue	36 hour for 2 PM Tue	48 hour for 2 AM Wed	72 hour for 2 AM Thu	96 hour for 2 AM Fri	120 hour for 2 AM Sat
Dissipated	<1%	<1%	<1%	<1%	10%	43%	72%
Tropical Depression (<39)	1%	1%	2%	2%	27%	41%	26%
Tropical Storm (39-73)	69%	38%	36%	36%	52%	16%	1%
Hurricane (all categories)	30%	61%	61%	62%	12%	1%	<1%
-- Category 1 (74-95)	28%	50%	44%	41%	9%	1%	<1%
-- Category 2 (96-110)	1%	8%	13%	15%	2%	<1%	<1%
-- Category 3 (111-130)	<1%	2%	4%	5%	1%	<1%	<1%
-- Category 4 (131-155)	<1%	<1%	1%	1%	<1%	<1%	<1%
-- Category 5 (>155)	<1%	<1%	<1%	<1%	<1%	<1%	<1%
Forecast Maximum Wind	70 mph	80 mph	85 mph	90 mph	60 mph	35 mph	25 mph

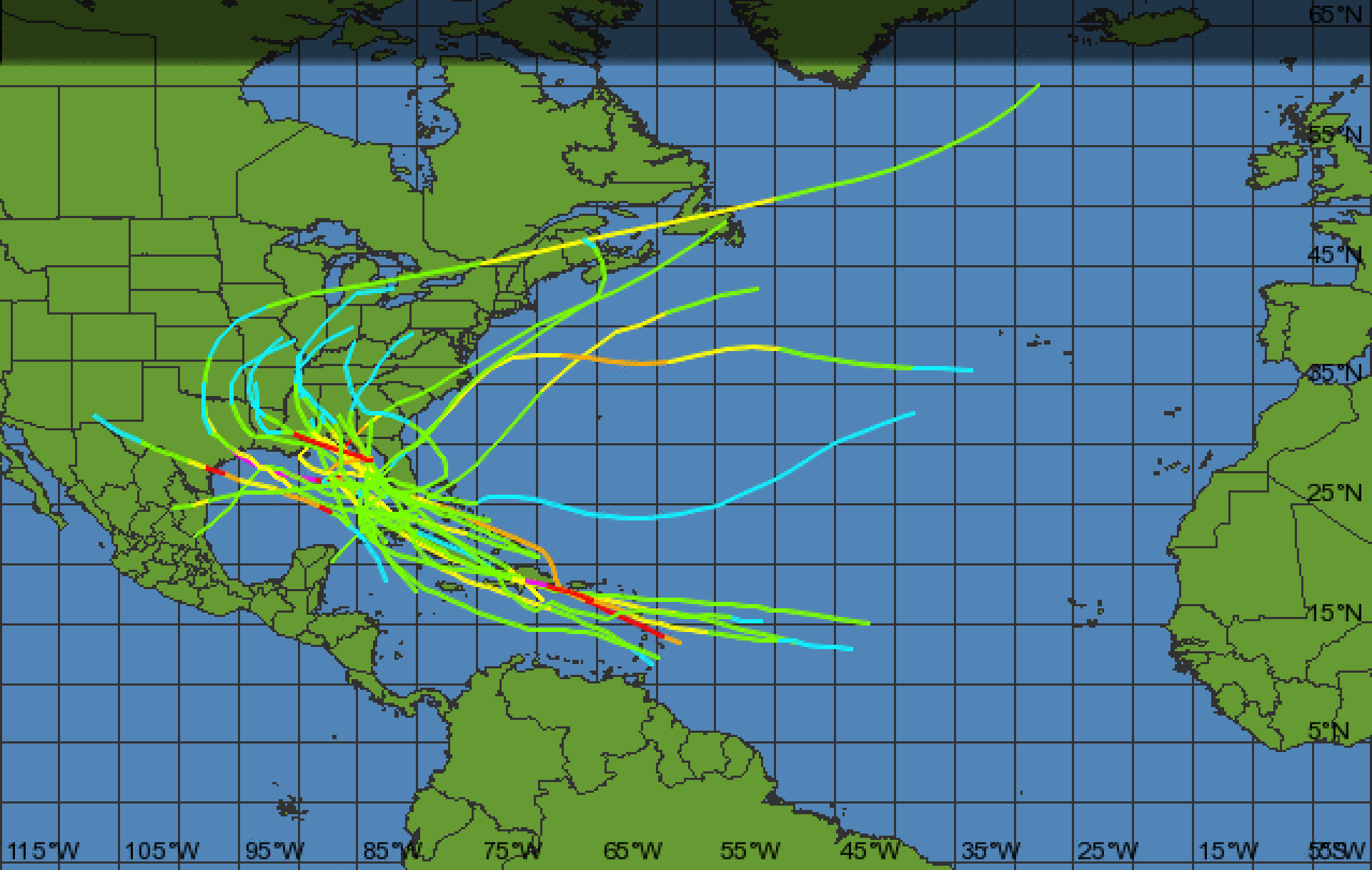


# Tropical Storm Isaac

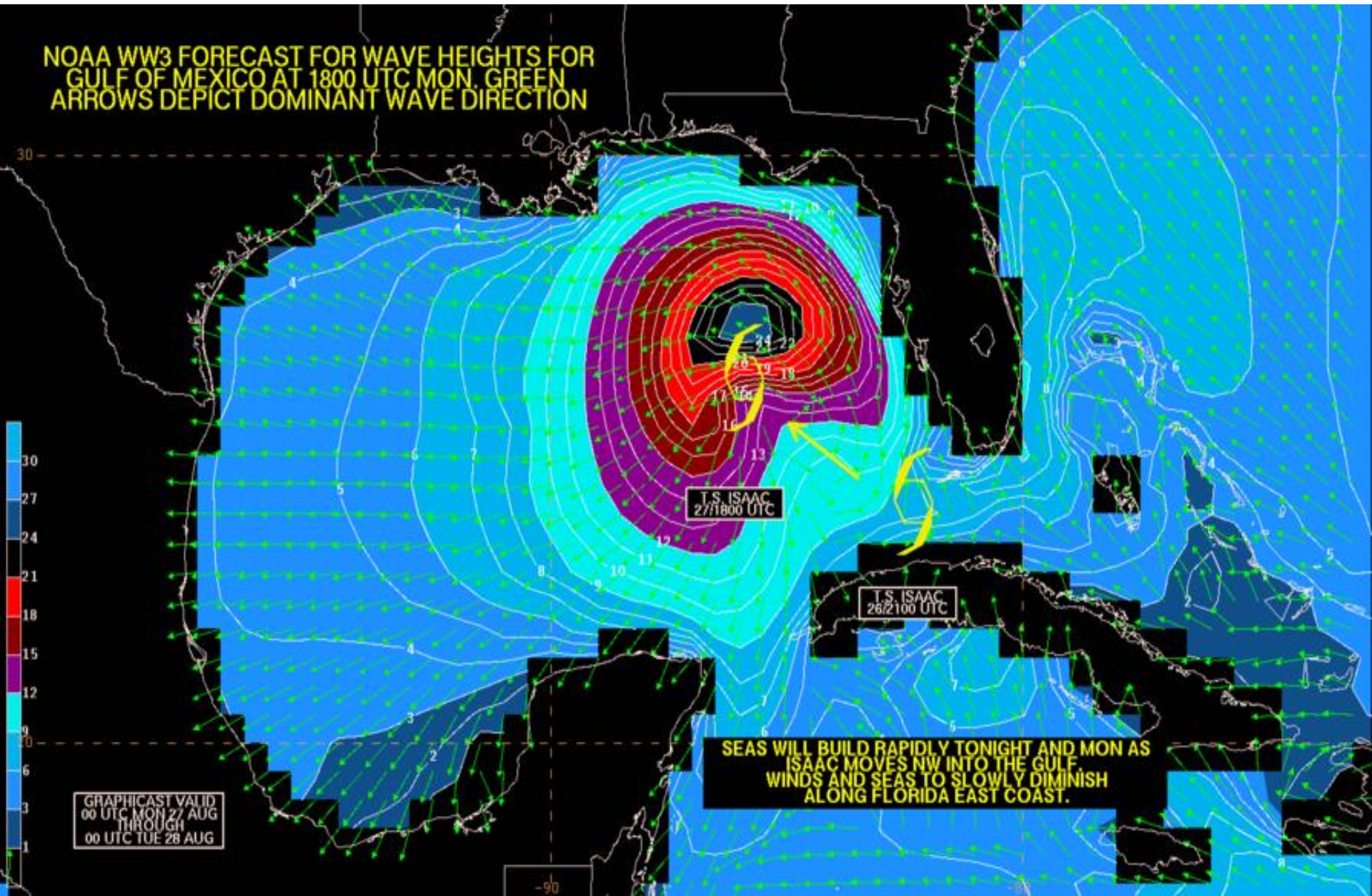
Tracks of all August  
Tropical Storms  
Within 2 degrees of Isaac  
Between 1851 and 2011

## Storm Category

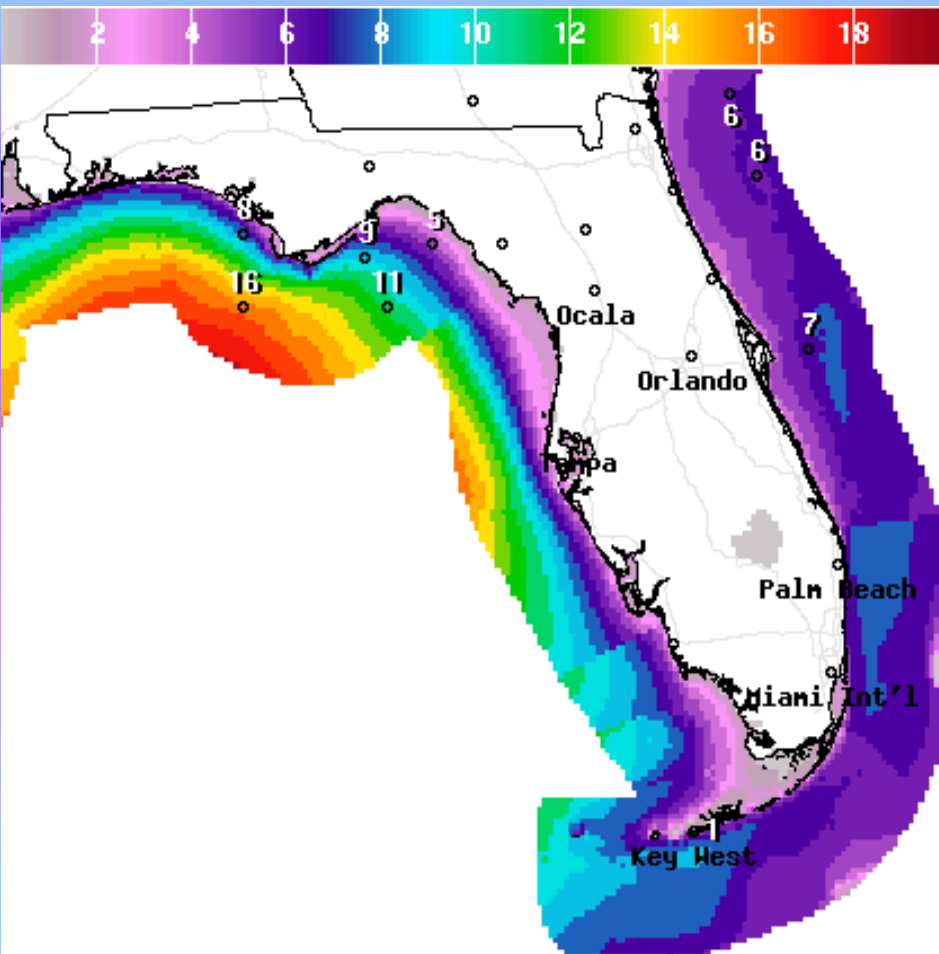
Tropical Depression	Tropical Storm	Category 1	Category 2	Category 3	Category 4	Category 5
< 39 mph	39-73 mph	74-95 mph	96-110 mph	111-130 mph	131-155 mph	156+ mph



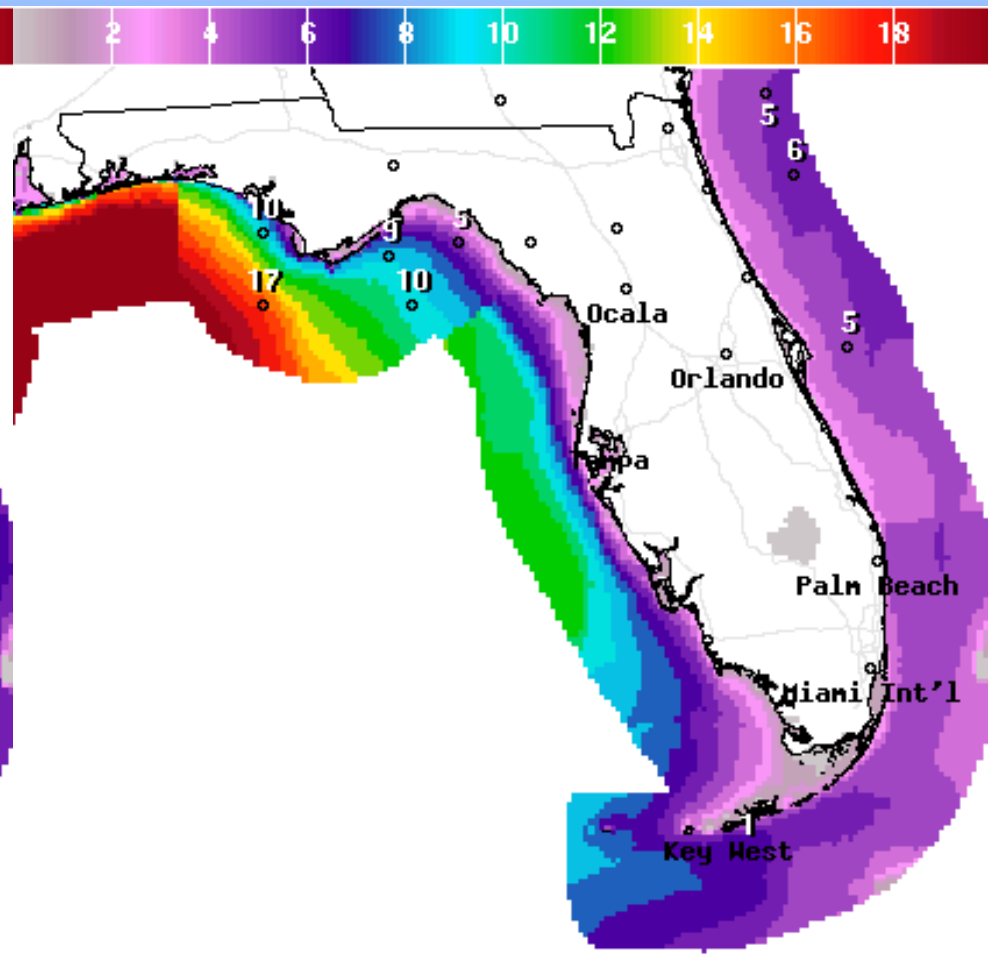
# NHC short term graphical forecast



# Forecast Wave Height (ft)



Wave Height(ft) Ending Mon Aug 27 2012 8PM EDT



Wave Height(ft) Ending Tue Aug 28 2012 8AM EDT

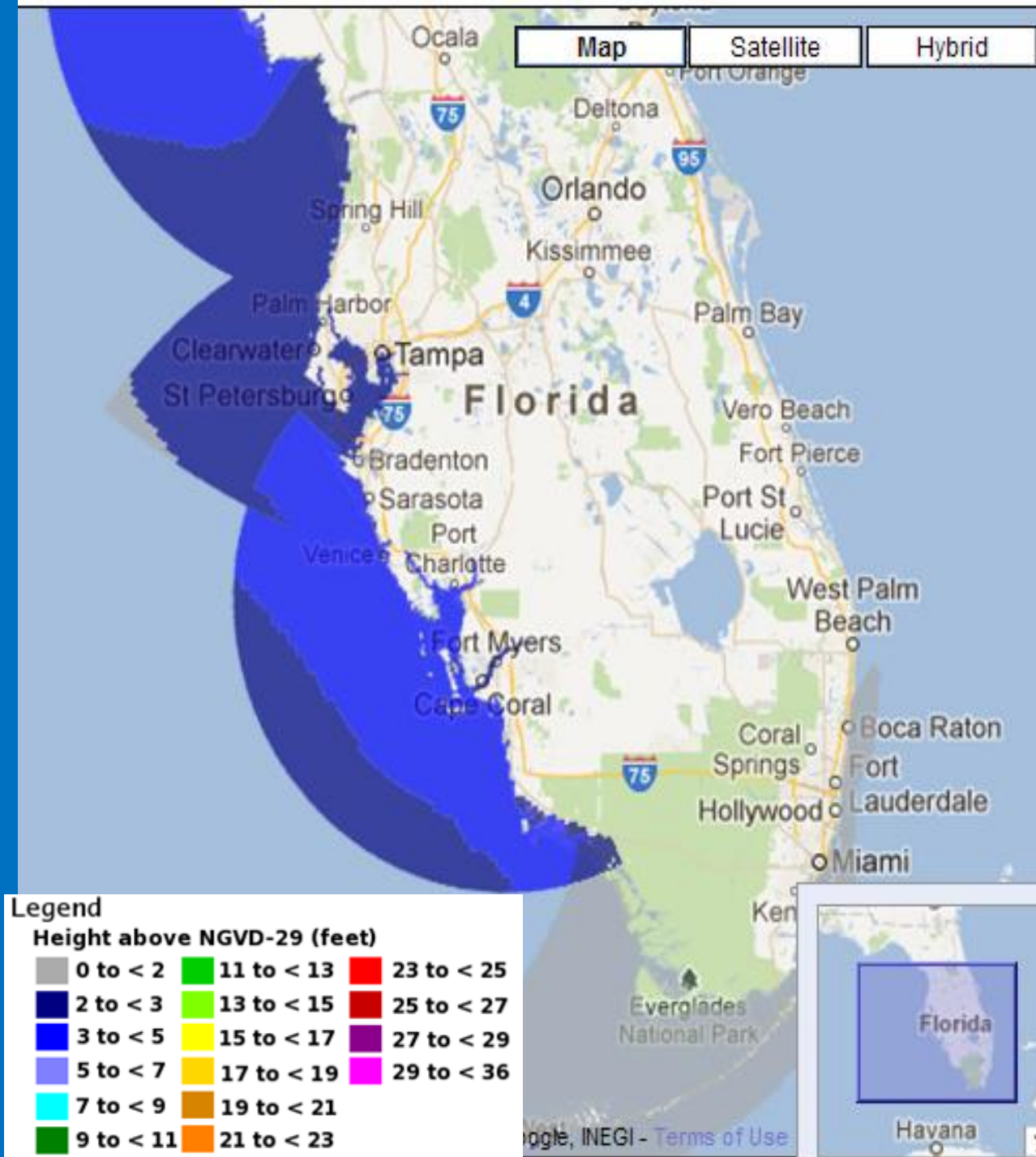


# Storm Surge

**Tropical Cyclone  
Storm Surge  
Heights  
That Have a 1 in  
10 Chance of  
Being Exceeded**

**Tropical Storm  
Isaac (2012)  
Advisory 25**

**For the 77 hours from 05 AM EDT  
Mon Aug 27 to 10 AM EDT Thu  
Aug 30**

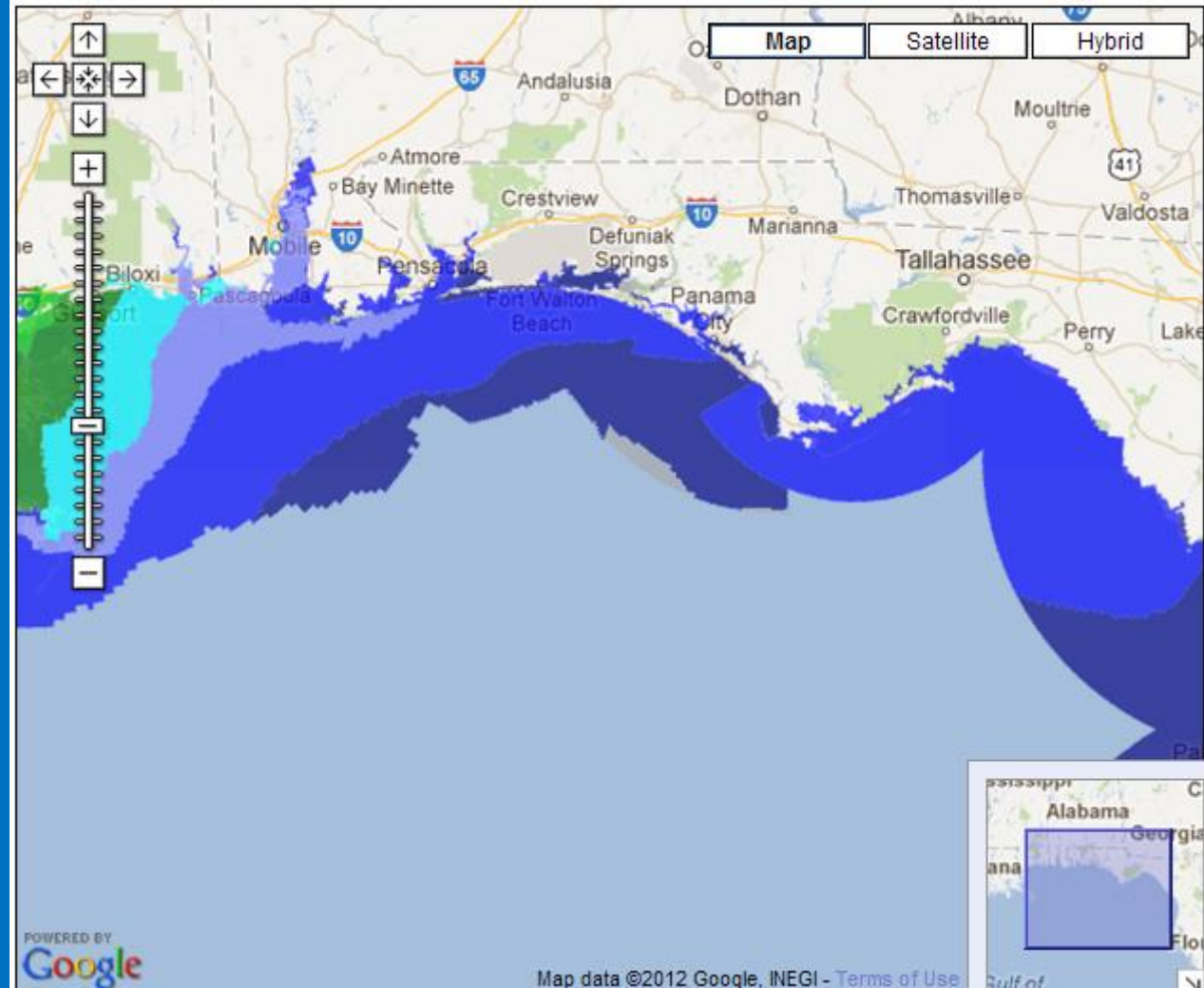


# Storm Surge

**Tropical Cyclone Storm  
Surge Heights  
That Have a 1 in 10  
Chance of Being  
Exceeded**

**Tropical Storm Isaac  
(2012) Advisory 25**

**For the 77 hours from  
05 AM EDT Mon Aug  
27 to 10 AM EDT Thu  
Aug 30**



## Legend

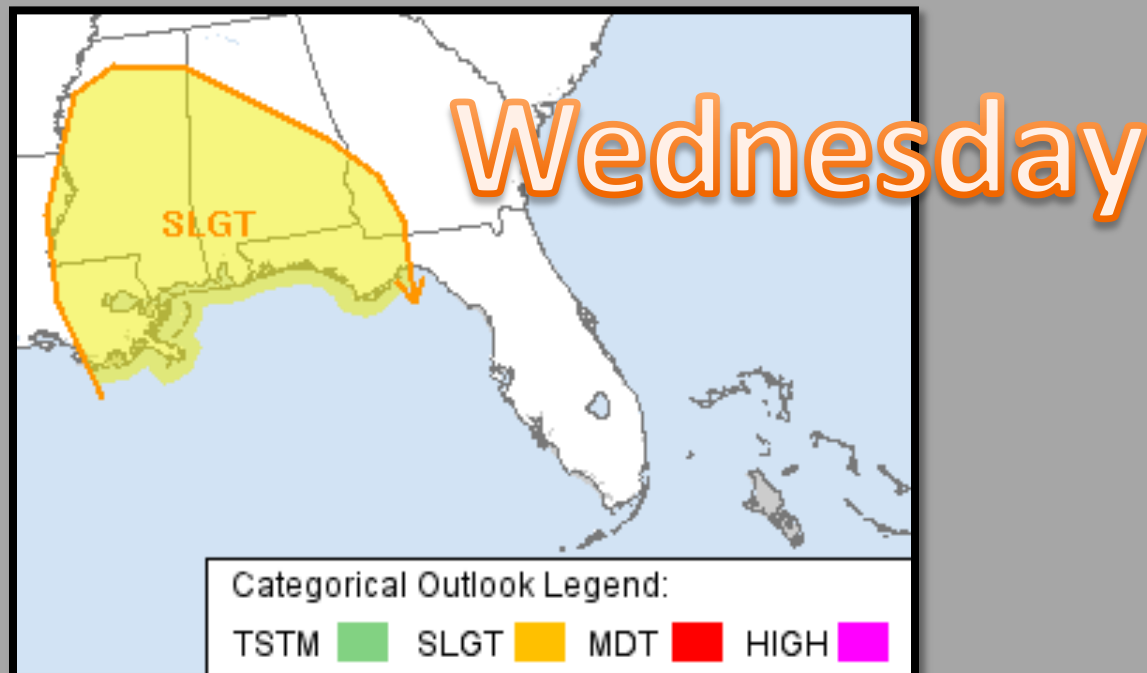
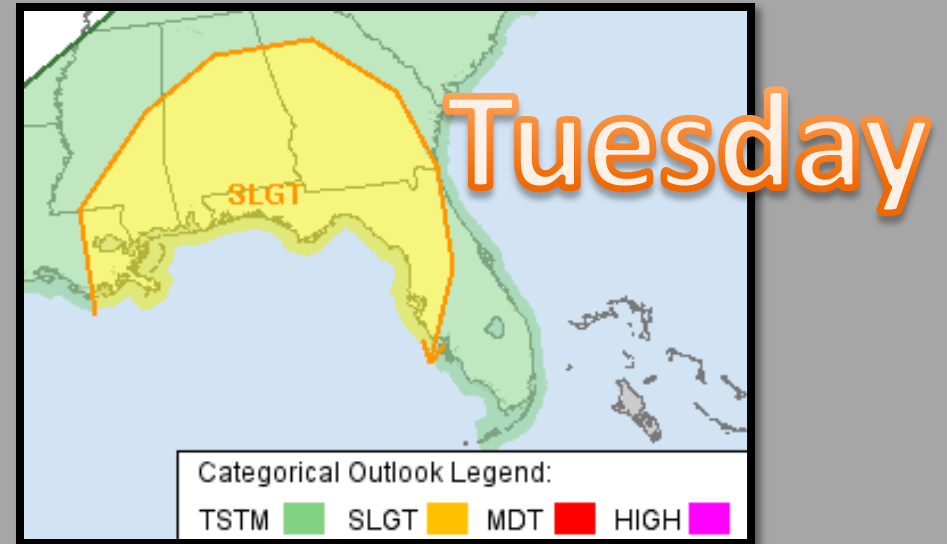
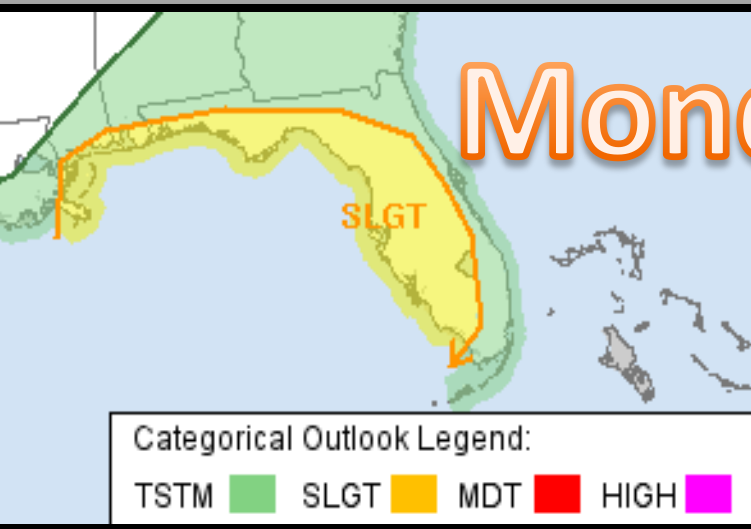
Height above NGVD-29 (feet)

0 to < 2	11 to < 13	23 to < 25
2 to < 3	13 to < 15	25 to < 27
3 to < 5	15 to < 17	27 to < 29
5 to < 7	17 to < 19	29 to < 36
7 to < 9	19 to < 21	
9 to < 11	21 to < 23	

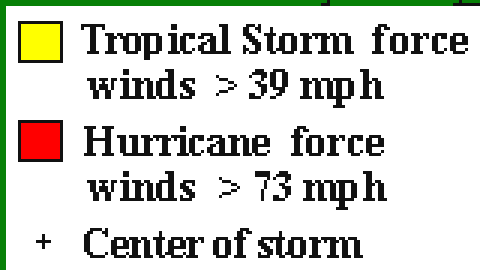
# TORNADO WATCH UNTIL 9AM



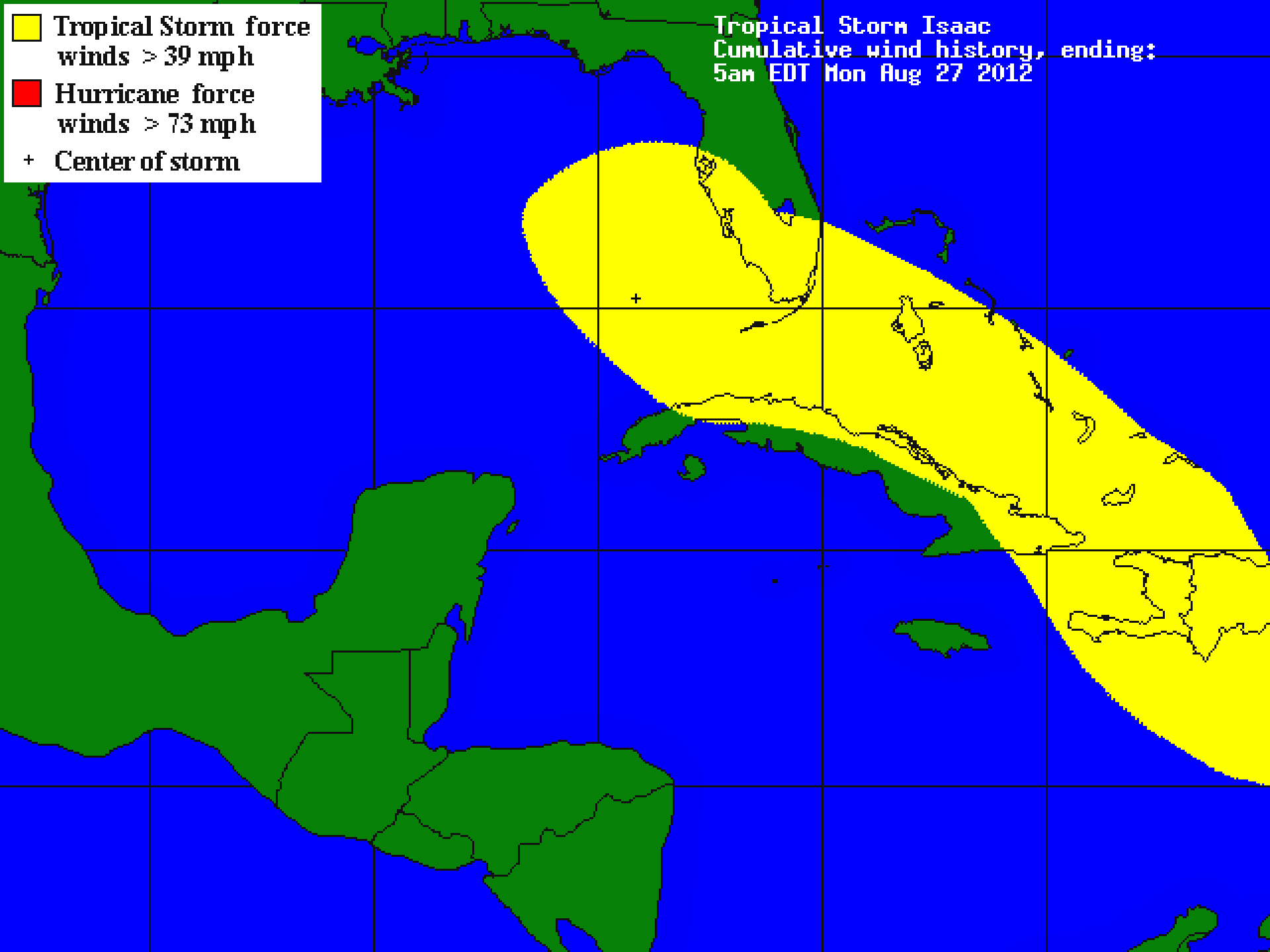
# Risk of Severe Weather - Tornadoes







Tropical Storm Isaac  
Cumulative wind history, ending:  
5am EDT Mon Aug 27 2012



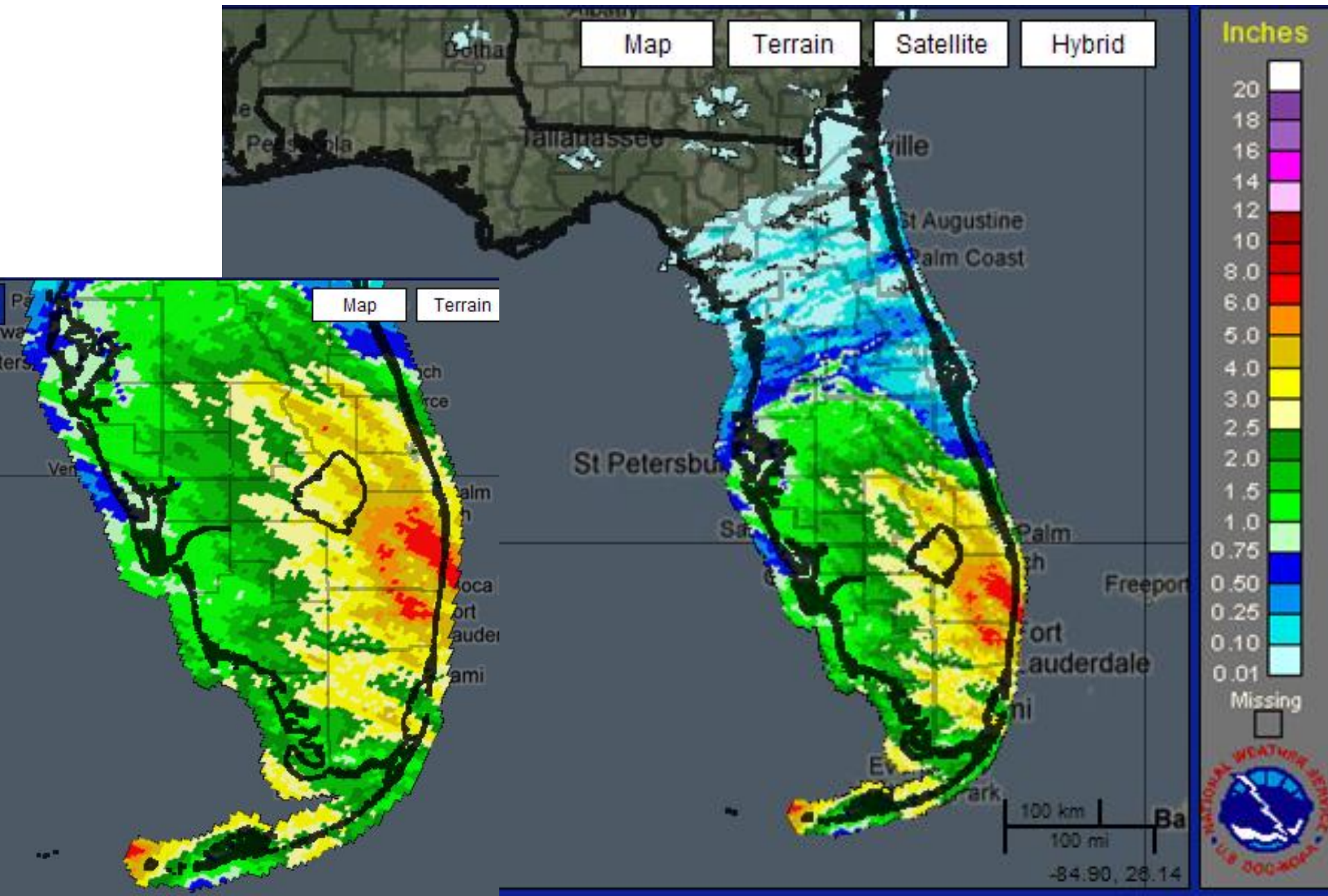
# Report for Tropical Storm Isaac

## Based on Advisory 25 Issued 08/27/12 5AM EDT

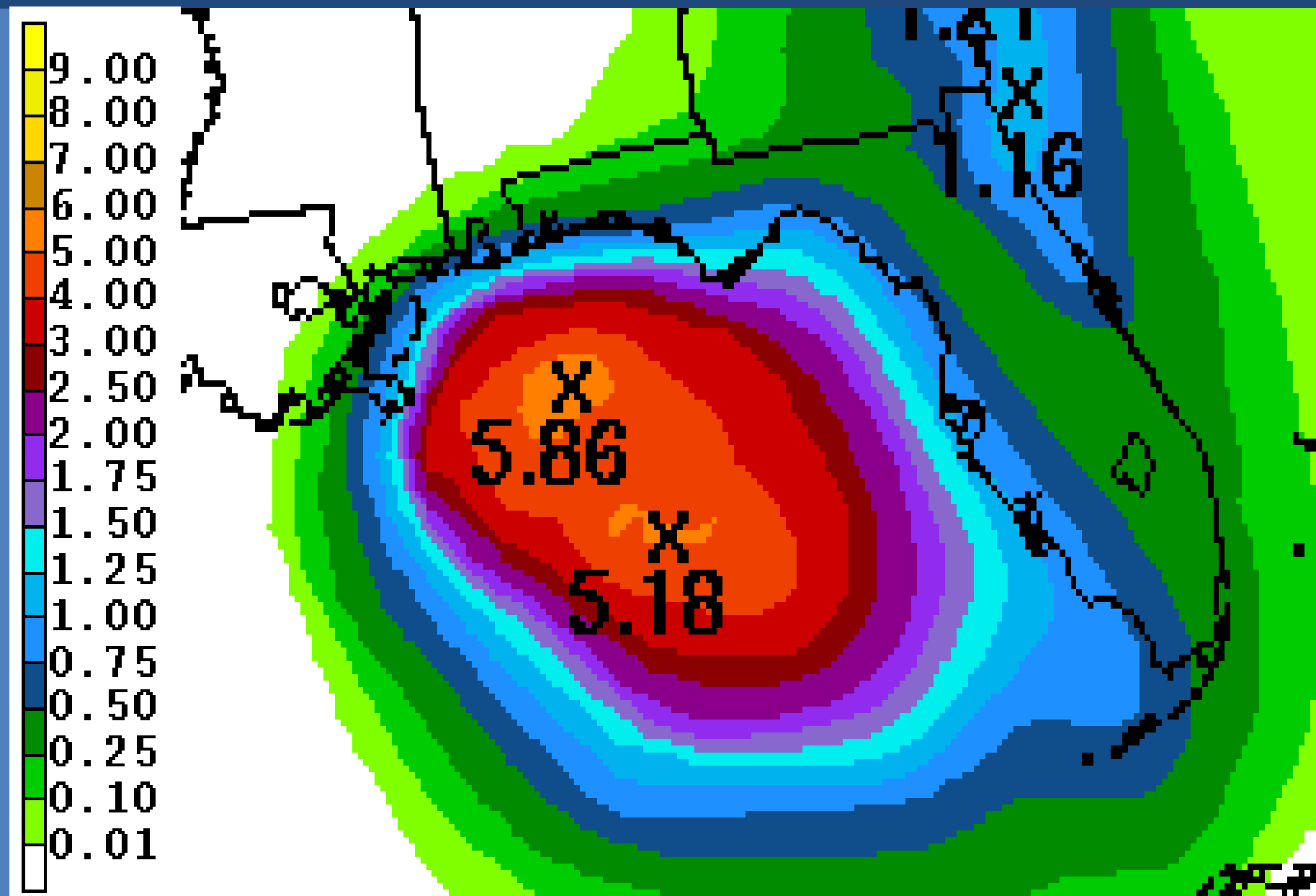
### Wind Timing for Local Areas Only ( 23 Items)

Location	34kt(39mph)	50kt(58mph)	64kt(74mph)	64ktEND(dur)	50ktEND(dur)	34ktEND(dur)	Peak Wind
FL Dade	Existing					08/27 07E [02]	36kt 08/27 05E
FL Monroe	Existing					08/27 10E [05]	40kt 08/27 05E
FL Collier	Existing					08/27 11E [06]	39kt 08/27 05E
FL Broward	Existing					08/27 07E [02]	35kt 08/27 05E
FL Lee	Existing					08/27 11E [06]	39kt 08/27 05E
FL Hendry	Existing					08/27 09E [04]	37kt 08/27 05E
FL Palm Beach	Existing					08/27 06E [01]	34kt 08/27 05E
FL Charlotte	Existing					08/27 12E [07]	40kt 08/27 05E
FL Glades	Existing					08/27 09E [04]	37kt 08/27 05E
FL Highlands	Existing					08/27 08E [03]	36kt 08/27 05E
FL Desoto	Existing					08/27 11E [06]	38kt 08/27 05E
FL Sarasota	Existing					08/27 12E [07]	39kt 08/27 05E
FL Manatee	Existing					08/27 12E [07]	38kt 08/27 05E
FL Hardee	Existing					08/27 10E [05]	37kt 08/27 05E
FL Pinellas	Existing					08/27 12E [07]	37kt 08/27 05E
FL Hillsborough	Existing					08/27 11E [06]	37kt 08/27 05E
FL Polk	Existing					08/27 09E [04]	35kt 08/27 05E
FL Pasco	Existing					08/27 08E [03]	34kt 08/27 05E
FL Escambia	08/28 00E					08/29 06E [30]	40kt 08/28 12E
FL Santa Rosa	08/28 00E					08/29 03E [27]	39kt 08/28 12E
FL Okaloosa	08/28 02E					08/28 19E [17]	36kt 08/28 07E
FL Walton	08/28 08E					08/28 09E [01]	34kt 08/28 08E

# Estimated Rainfall – Past 24 hours

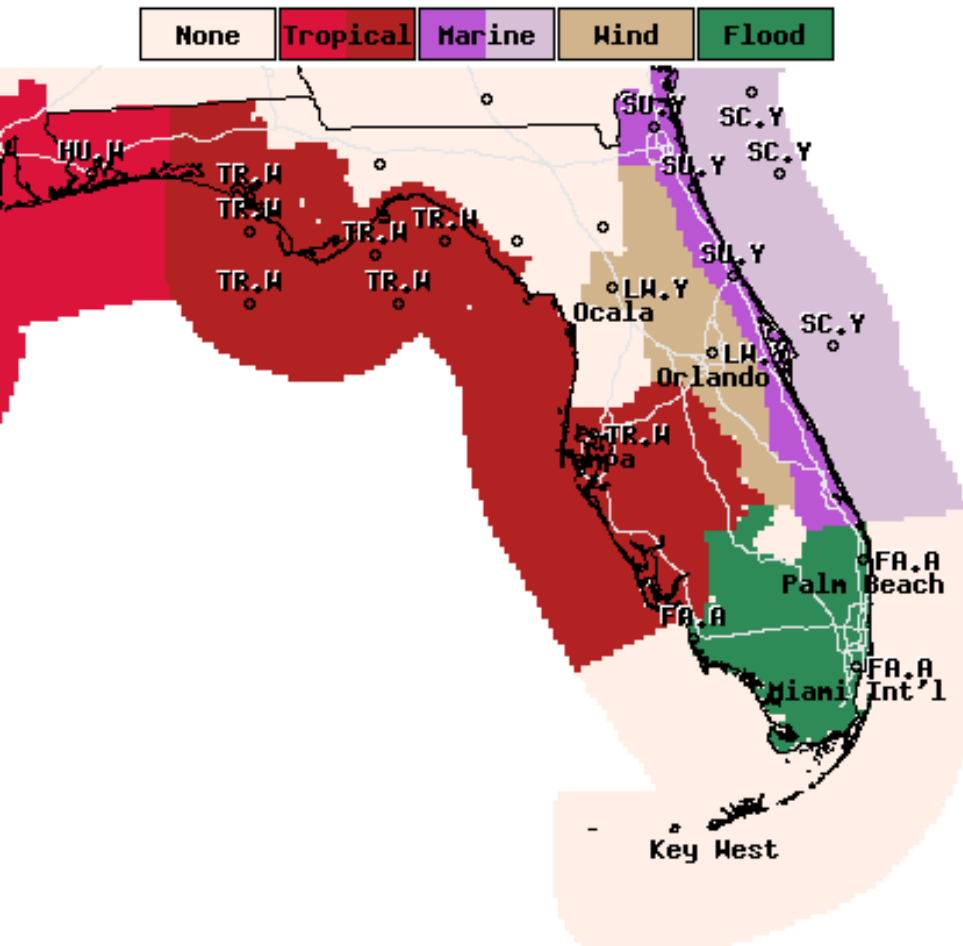


## *Forecast Rainfall - Monday*





# Flood Watch Until 8pm Monday



BROWARD...COLLIER...MIAMI DADE...PALM BEACH...GLADES...HENDRY... MAINLAND MONROE.

\* THROUGH THIS EVENING \*

DOPPLER RADAR HAS INDICATED THAT 2 TO 4 INCHES OF RAINFALL HAVE FALLEN OVER SOUTH FLORIDA SINCE EARLY SUNDAY MORNING...EXCEPT FOR METRO BROWARD COUNTY WHERE 4 TO 8 INCHES HAVE FALLEN AND 9 TO 13 INCHES OVER METRO PALM BEACH COUNTY.

ADDITIONAL RAINFALL AMOUNTS OF 1 TO 3 INCHES WILL BE POSSIBLE OVER SOUTH FLORIDA TODAY WITH HIGHER AMOUNTS WHERE RAIN BANDS PASS OVER THE SAME AREA.

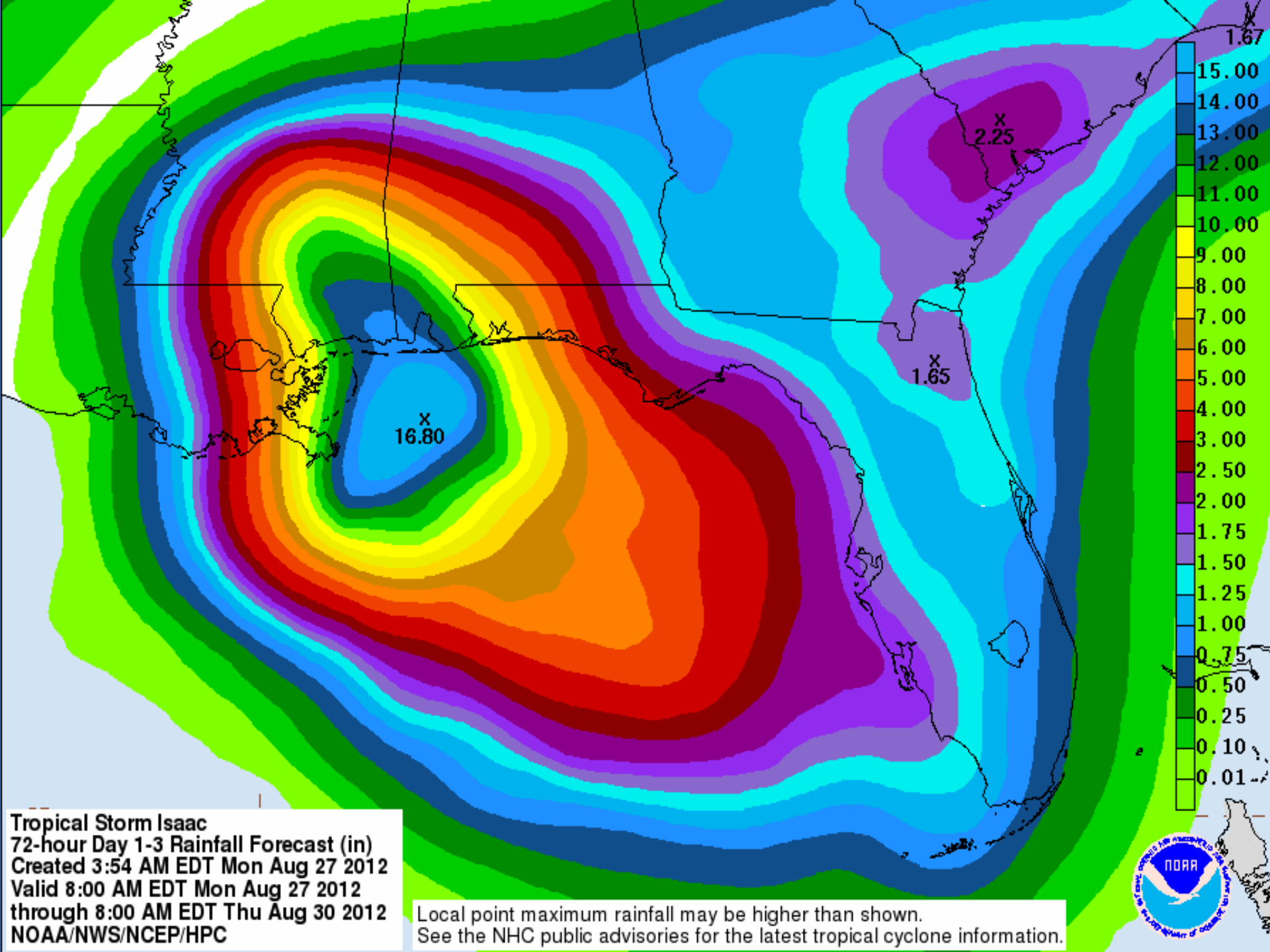
THIS CAN LEAD TO FLOODING CONDITIONS OVER SOUTH FLORIDA AS THE GROUNDS ARE SATURATED DUE TO THE HEAVY RAINFALL DURING THE LAST 24 HOURS.

Hazards For Mon Aug 27 2012 5PM EDT  
(Mon Aug 27 2012 21Z)

National Digital Forecast Database

09z issuance Graphic created-Aug 27 5:25AM EDT





**Tropical Storm Isaac**  
**72-hour Day 1-3 Rainfall Forecast (in)**  
Created 3:54 AM EDT Mon Aug 27 2012  
Valid 8:00 AM EDT Mon Aug 27 2012  
through 8:00 AM EDT Thu Aug 30 2012  
NOAA/NWS/NCEP/HPC

Local point maximum rainfall may be higher than shown.  
See the NHC public advisories for the latest tropical cyclone information.

# Flooding Potential



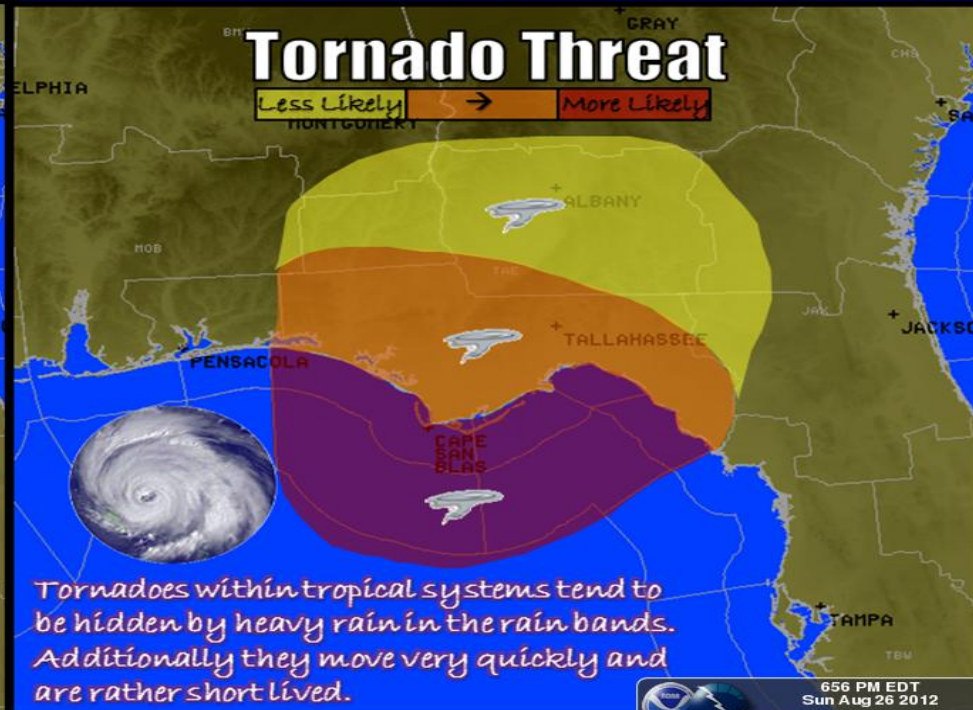
# Storm Surge + Tide Forecast



# Wind Threat



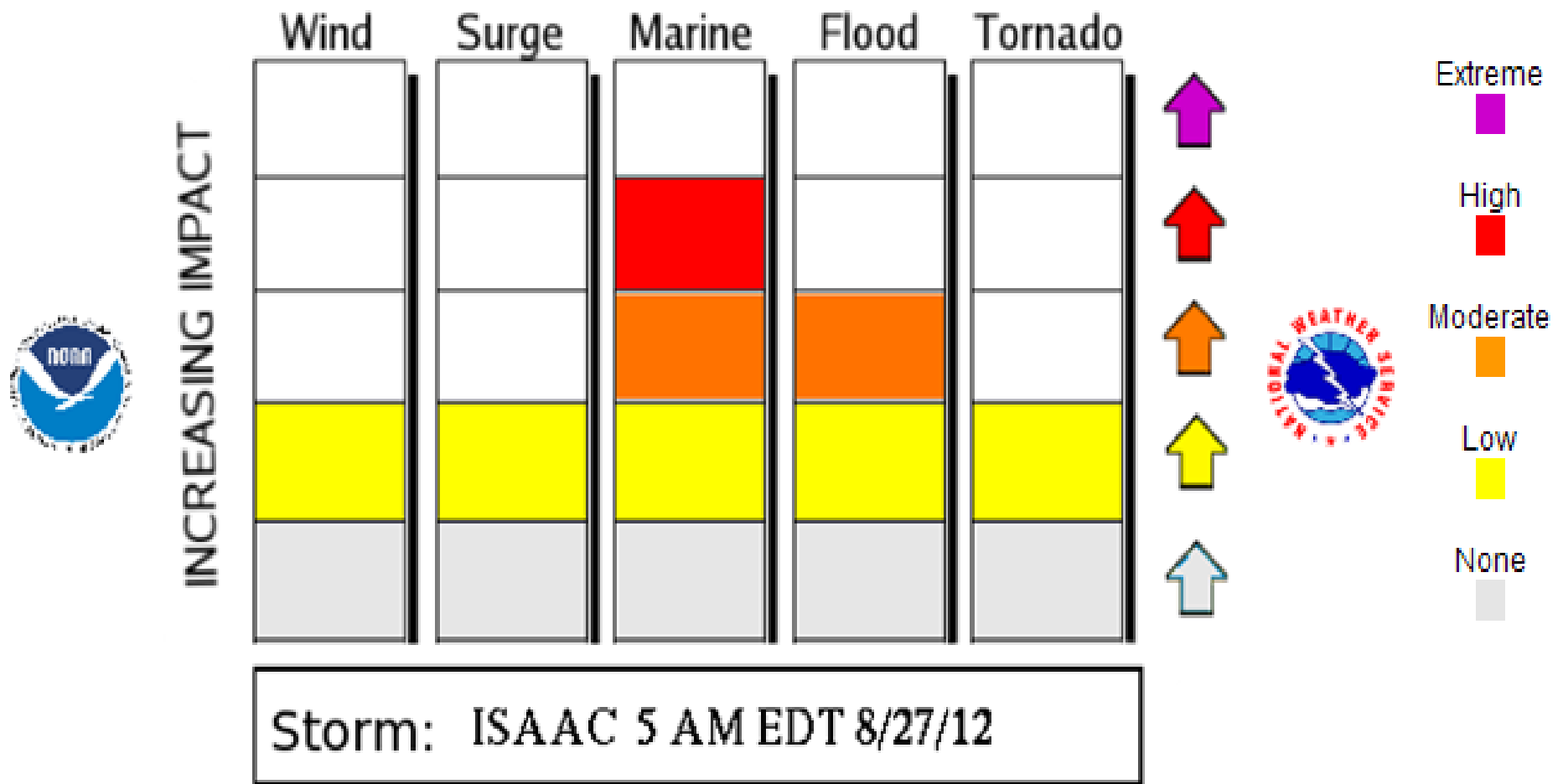
# Tornado Threat



[http://w1.weather.gov/tcig/php/tcig\\_index.php?sid=MFL](http://w1.weather.gov/tcig/php/tcig_index.php?sid=MFL)

# Tropical Cyclone Hazards Potential Impacts

## Specific to South Florida





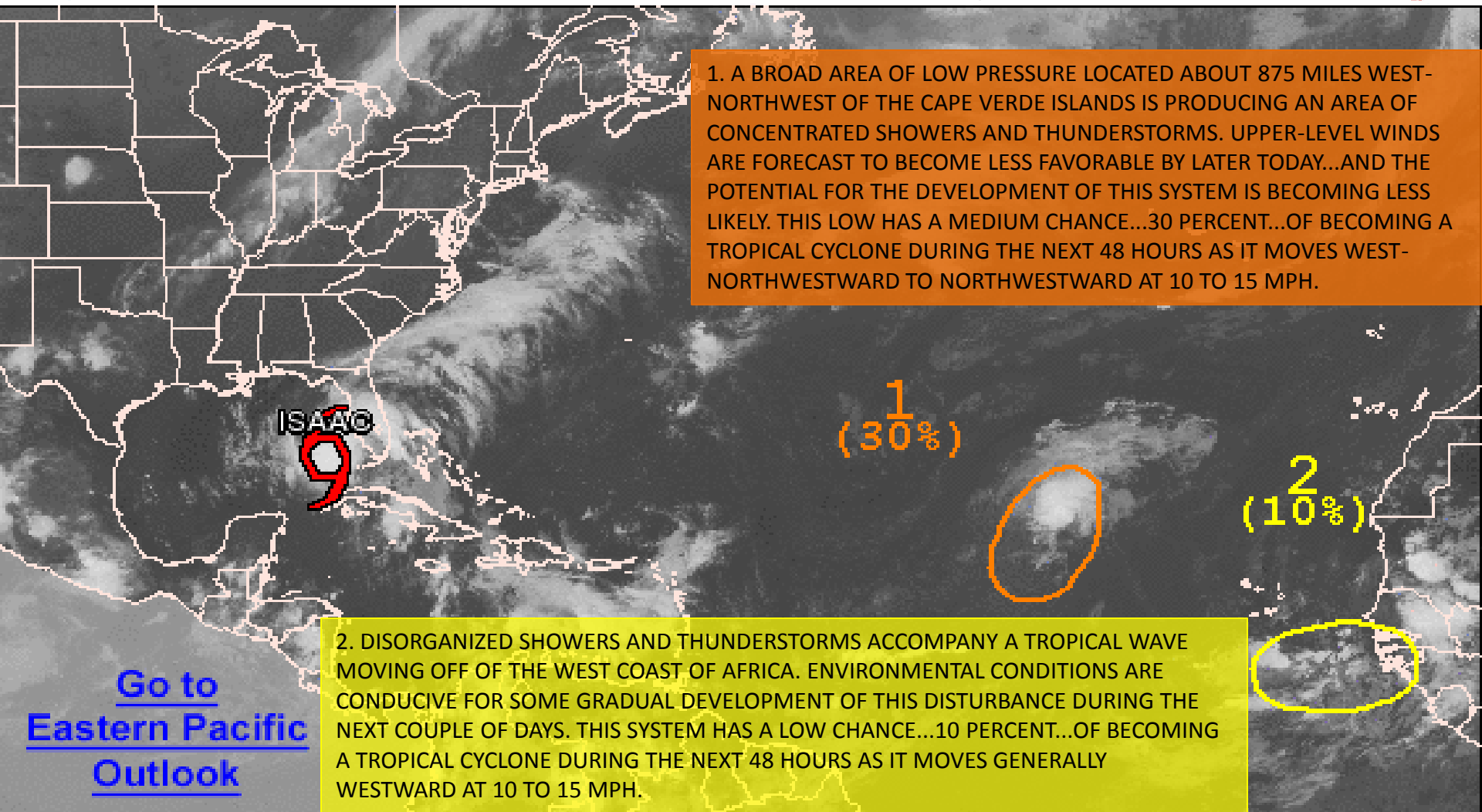
# Local Tropical Storm Isaac Hazards Links

- NWS Melbourne  
[http://w1.weather.gov/tcig/php/tcig\\_index.php?sid=MLB](http://w1.weather.gov/tcig/php/tcig_index.php?sid=MLB)
- NWS Tampa  
[http://w1.weather.gov/tcig/php/tcig\\_index.php?sid=TBW](http://w1.weather.gov/tcig/php/tcig_index.php?sid=TBW)
- NWS Tallahassee  
[http://w1.weather.gov/tcig/php/tcig\\_index.php?sid=TAE](http://w1.weather.gov/tcig/php/tcig_index.php?sid=TAE)
- NWS Mobile  
[http://w1.weather.gov/tcig/php/tcig\\_index.php?sid=MOB](http://w1.weather.gov/tcig/php/tcig_index.php?sid=MOB)
- NWS Key West  
[http://w1.weather.gov/tcig/php/tcig\\_index.php?sid=KEY](http://w1.weather.gov/tcig/php/tcig_index.php?sid=KEY)
- NWS Miami  
[http://w1.weather.gov/tcig/php/tcig\\_index.php?sid=MFL](http://w1.weather.gov/tcig/php/tcig_index.php?sid=MFL)



# Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



200 AM EDT MON AUG 27 2012

Satellite Image: 0130 AM EDT

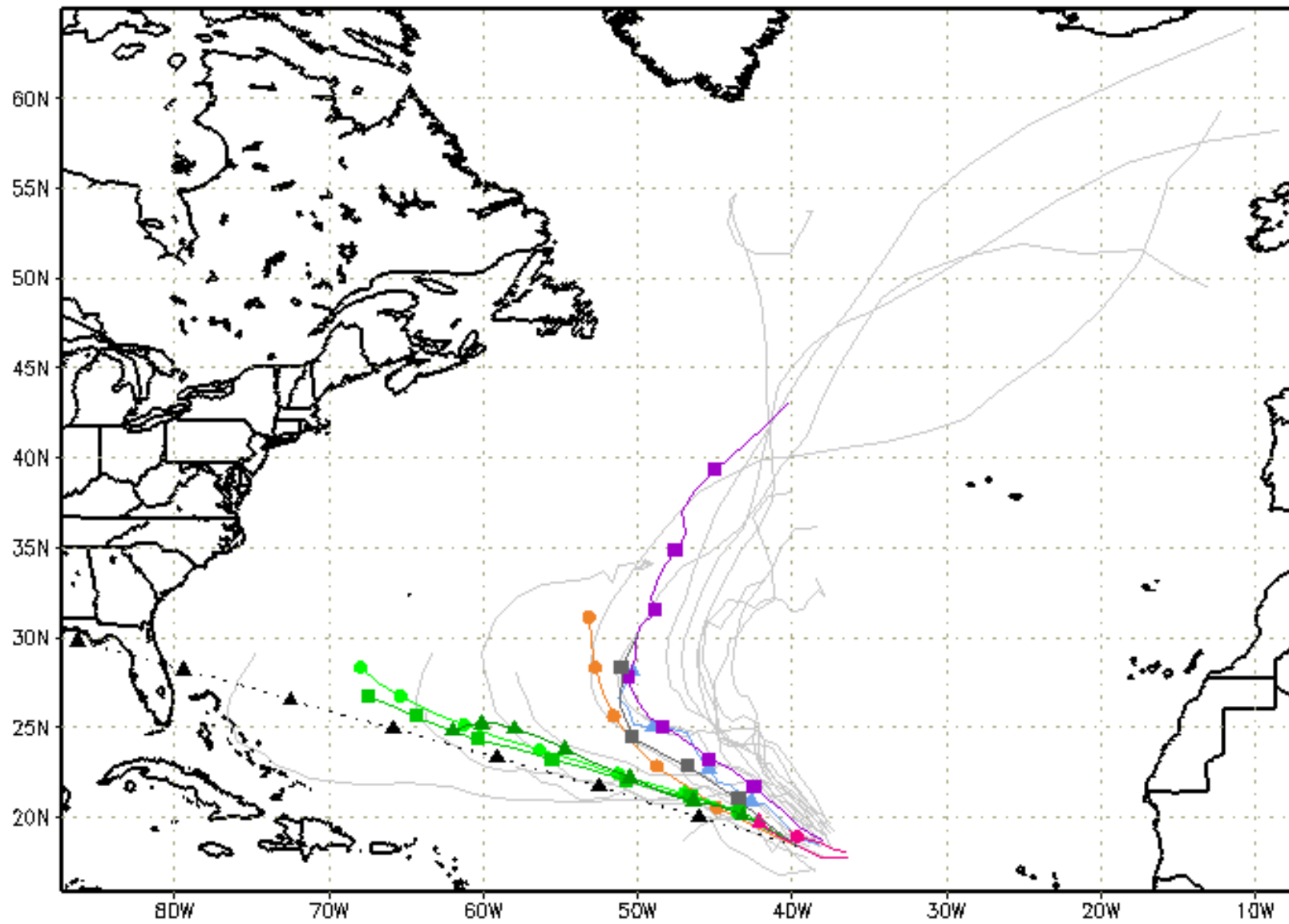
Outlined areas denote current position of systems discussed in the Tropical Weather Outlook. Color indicates probability of tropical cyclone formation within 48 hours.

Low <30%

Medium 30-50%

High >50%

XTRP 27/0600Z    BAMD 27/0600Z    GFDL 26/1800Z    AVNO 27/0000Z    CMC Not Avail  
 TVCN 27/0600Z    BAMB 27/0600Z    UKM 27/0000Z    AEMN 27/0000Z    APxx 27/0000Z  
 NHC Not Avail    BAMS 27/0600Z    NGPS Not Avail    HWRF 26/1800Z    GLP5 27/0600Z



**storm\_97**  
**sfwmd.gov**  
 weather@sfwmd.gov  
 27-Aug 06:10EDT

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>





# DISTURBANCE INVEST (AL97)

## Early-cycle intensity guidance

initialized at 0600 UTC, 27 August 2012

