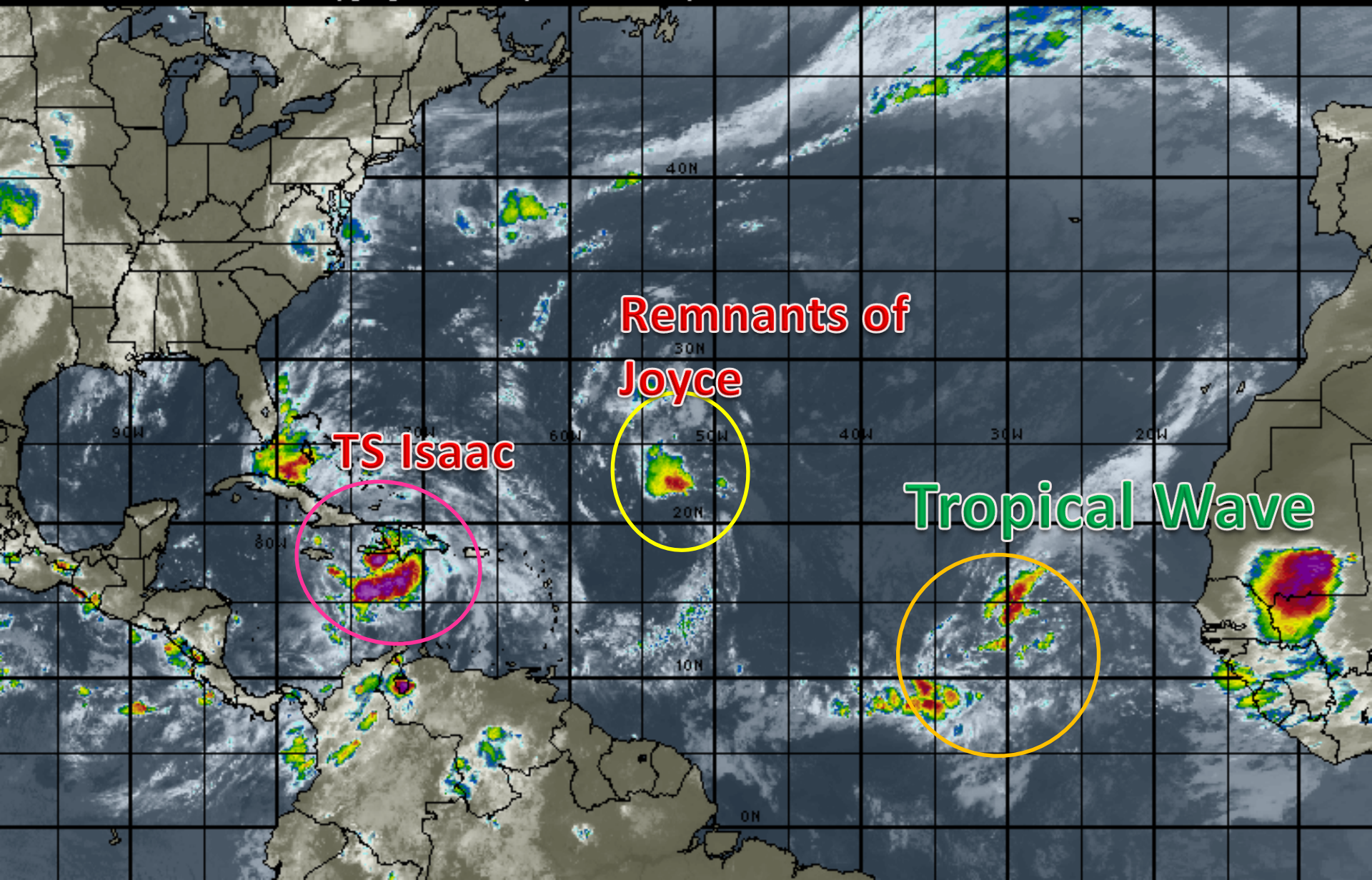


# Atlantic Basin Satellite Image

09:00 25-AUG-2012 GMT ©Copyright WSI Corporation <http://www.wsi.com>





# Tropical Storm Isaac

5 AM EDT Sat Aug 25 2012

Position 19.0 N 73.3 W

Maximum Winds 60 mph

Gusts 70 mph

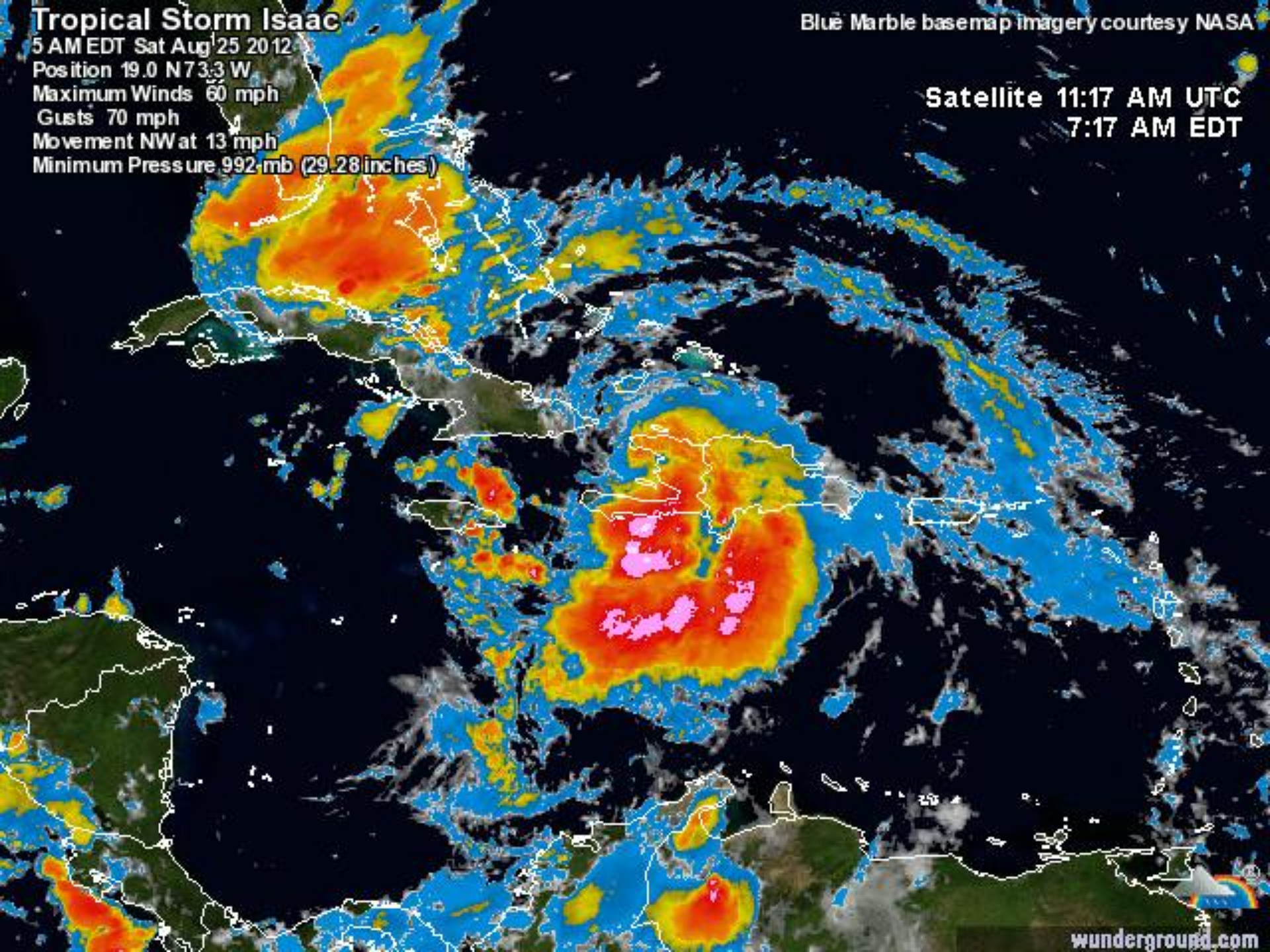
Movement NW at 13 mph

Minimum Pressure 992-mb (29.28 inches)

Blue Marble basemap imagery courtesy NASA

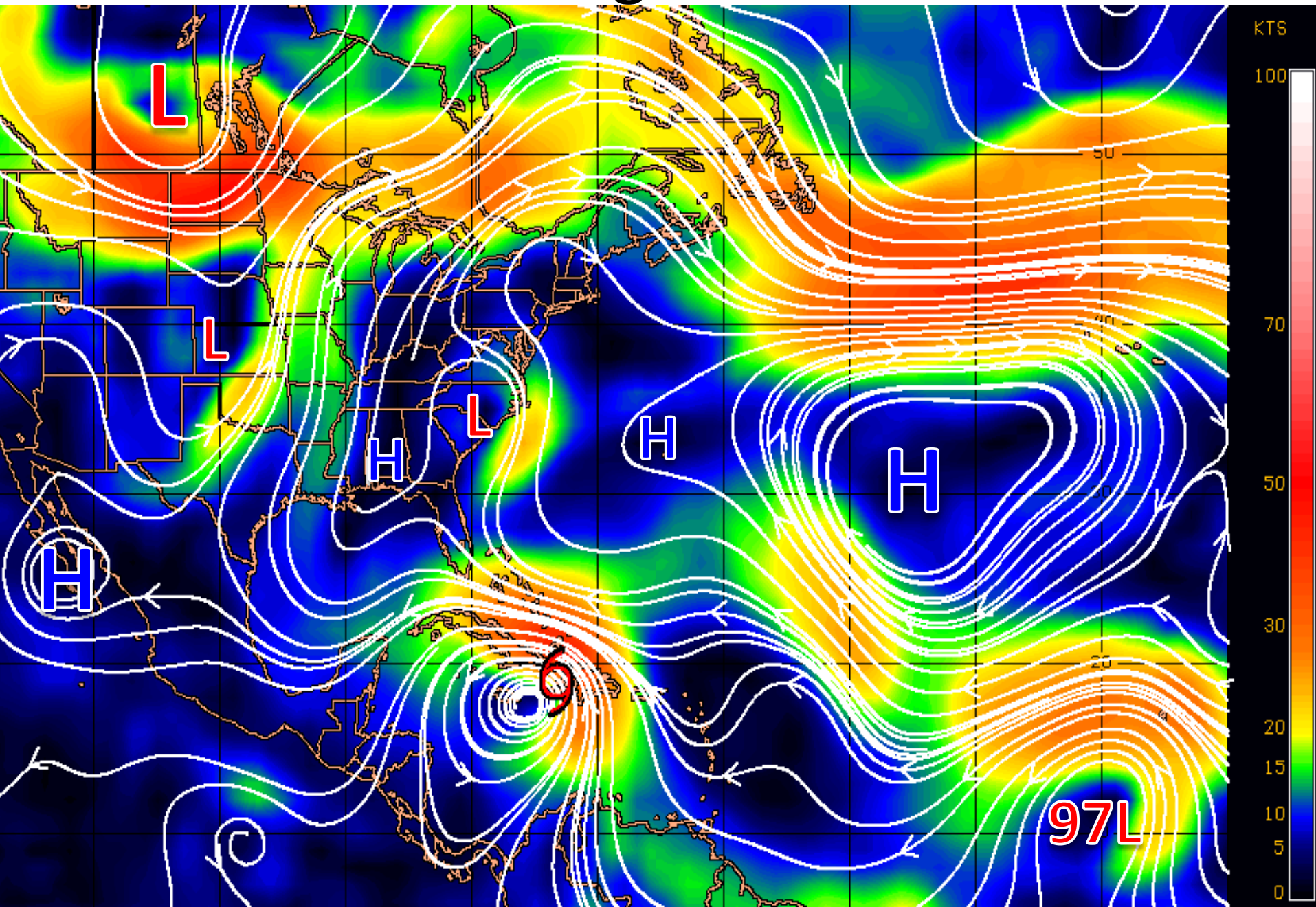
Satellite 11:17 AM UTC

7:17 AM EDT

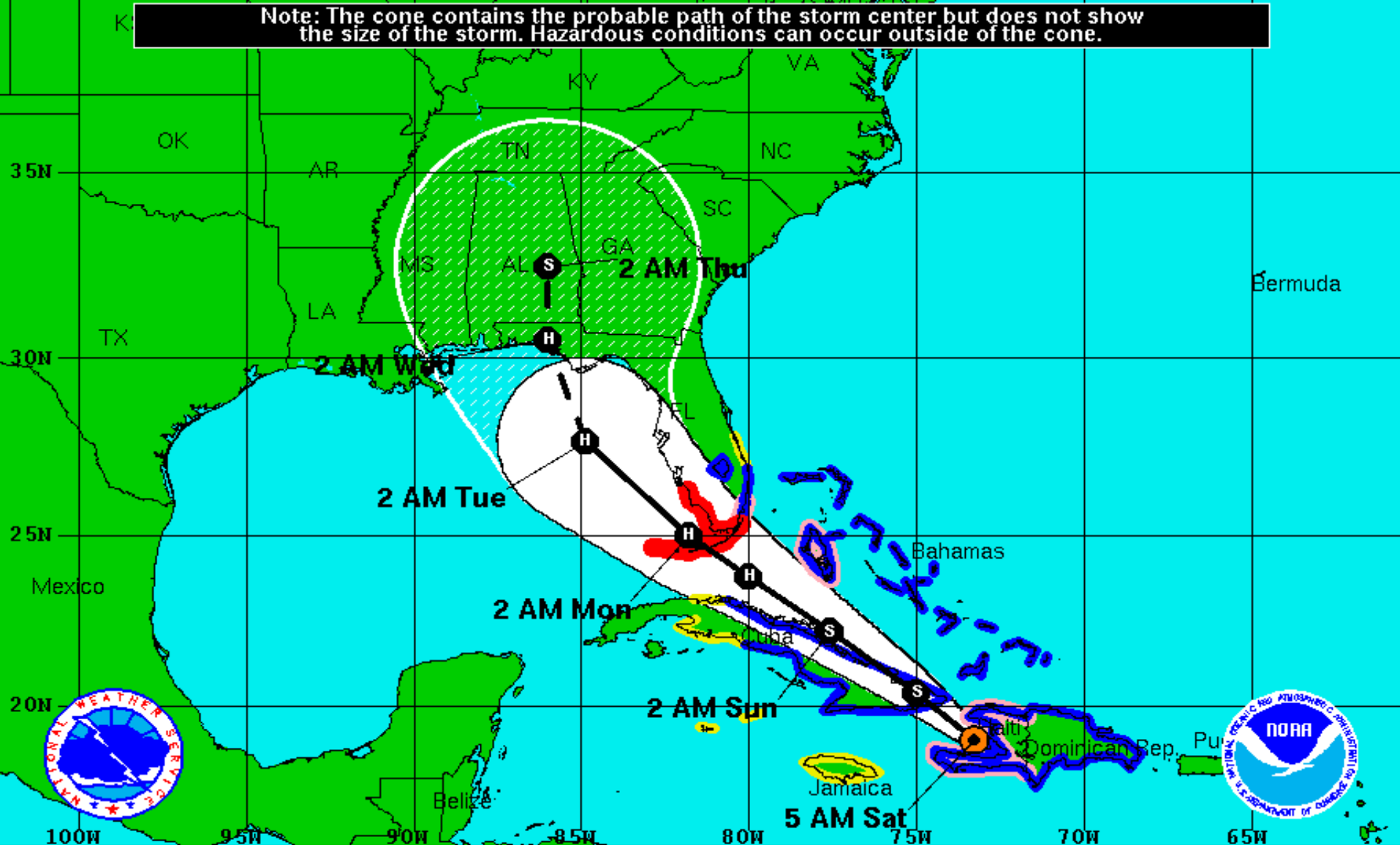




# Steering Currents



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 Storm Isaac**  
 Saturday August 25, 2012  
 5 AM EDT Advisory 17  
 NWS National Hurricane Center

**Current Information:**  
 Center Location 19.0 N 73.3 W  
 Max Sustained Wind 60 mph  
 Movement NW at 14 mph

**Forecast Positions:**  
 ● Tropical Cyclone ○ Post-Tropical  
 Sustained Winds: D < 39 mph  
 S 39-73 mph H 74-110 mph M > 110mph

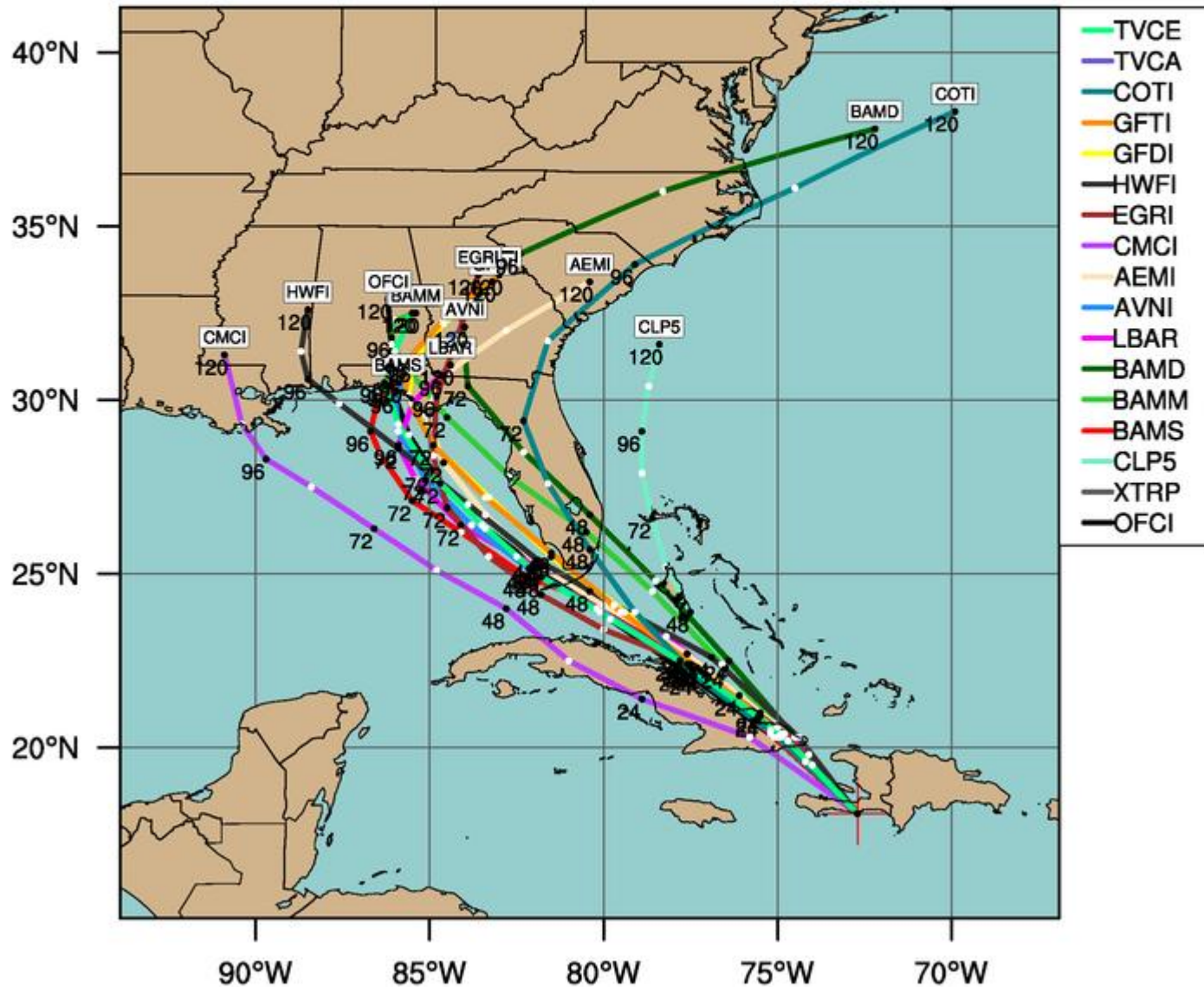
**Potential Track Area:**  
 Day 1-3 Day 4-5

**Watches:**  
 Hurricane Trop.Storm

**Warnings:**  
 Hurricane Trop.Storm

Early-cycle track guidance initialized at 0600 UTC, 25 August 2012

Current Basin: North Atlantic



# Tropical Storm Isaac

5 AM EDT Sat Aug 25 2012

Models: Points 12 hours apart

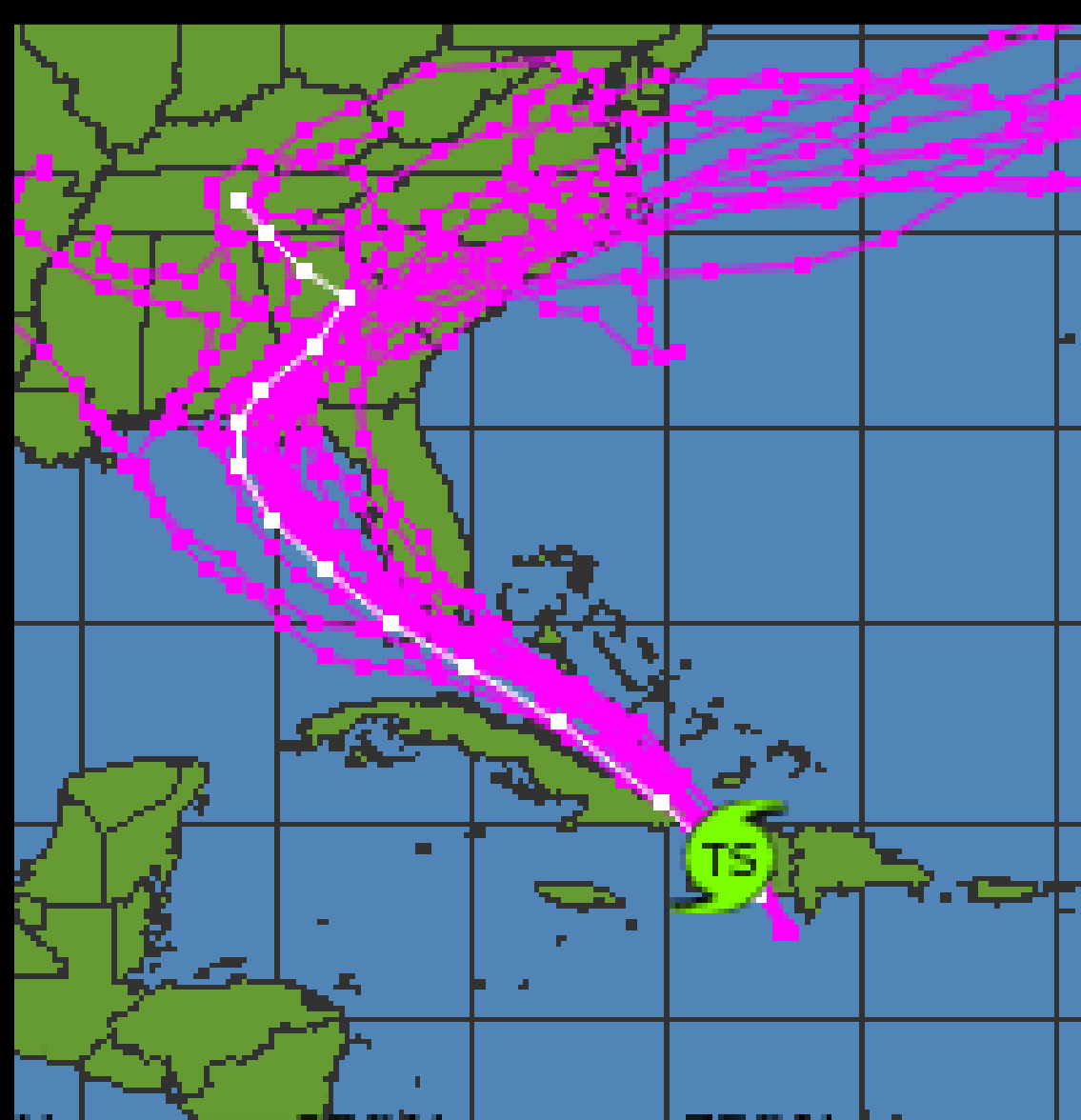
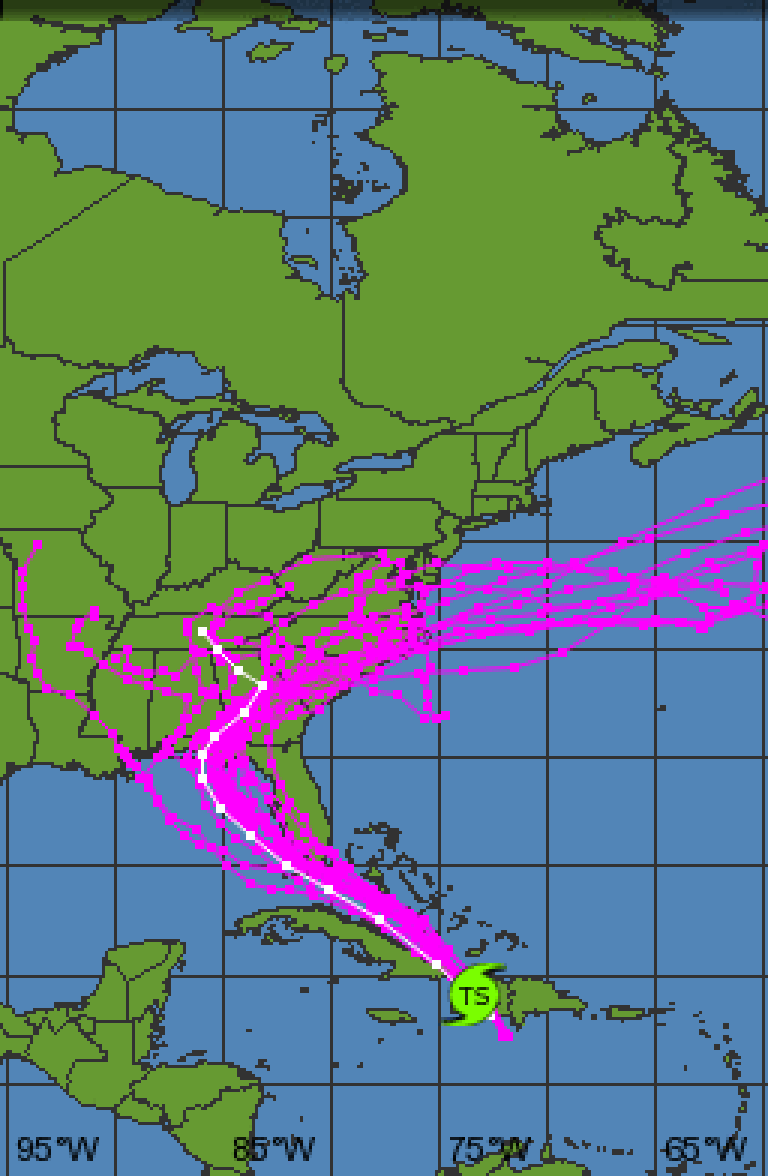
Initialized on Sat 2:00 AM EDT

GFS

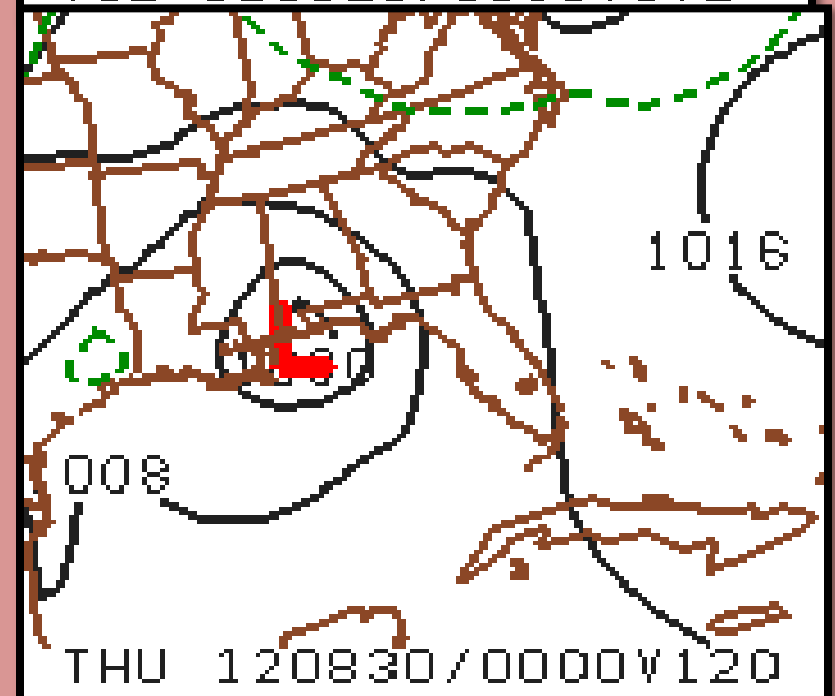
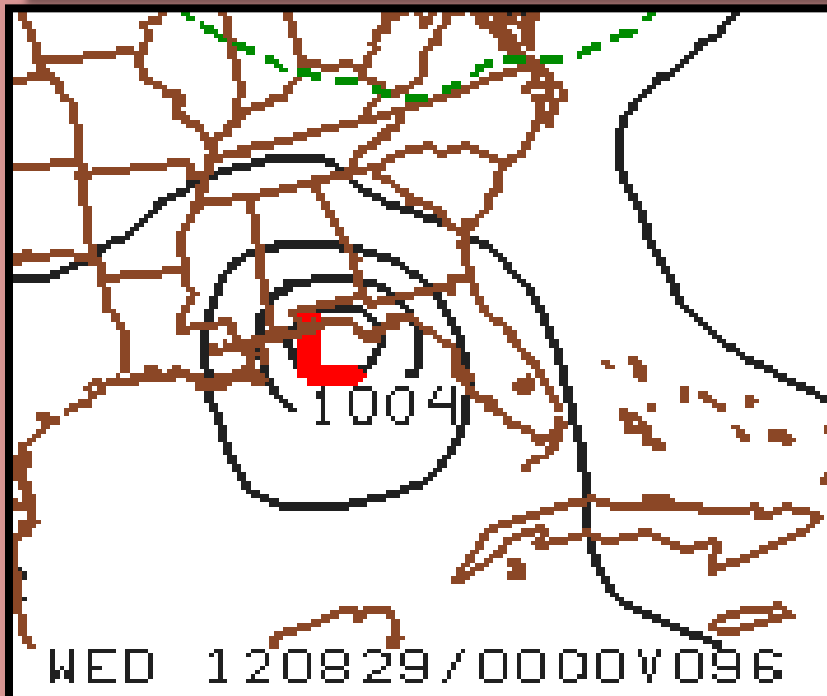
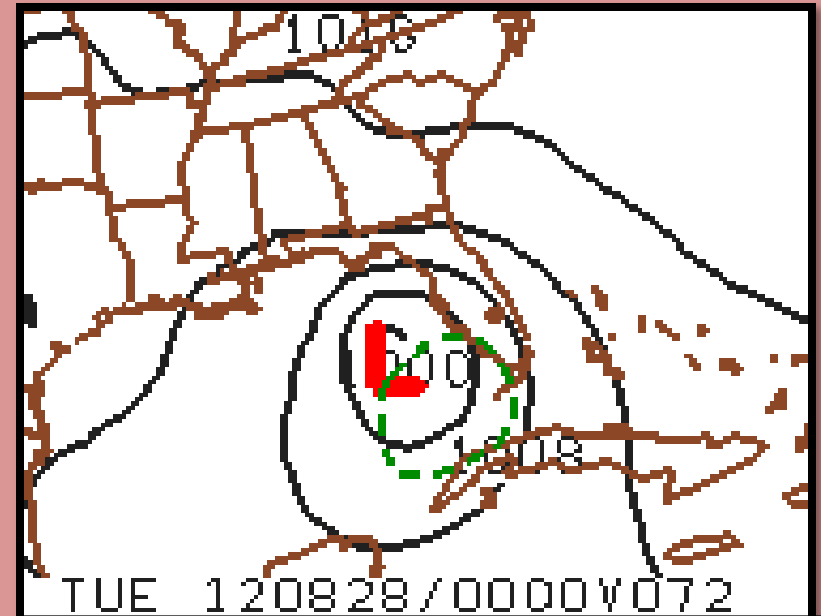
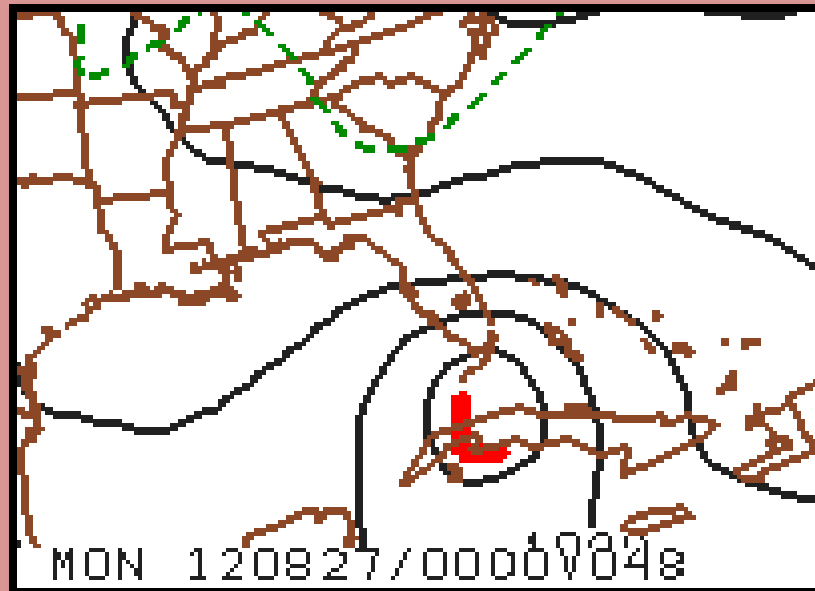
Ensemble Members



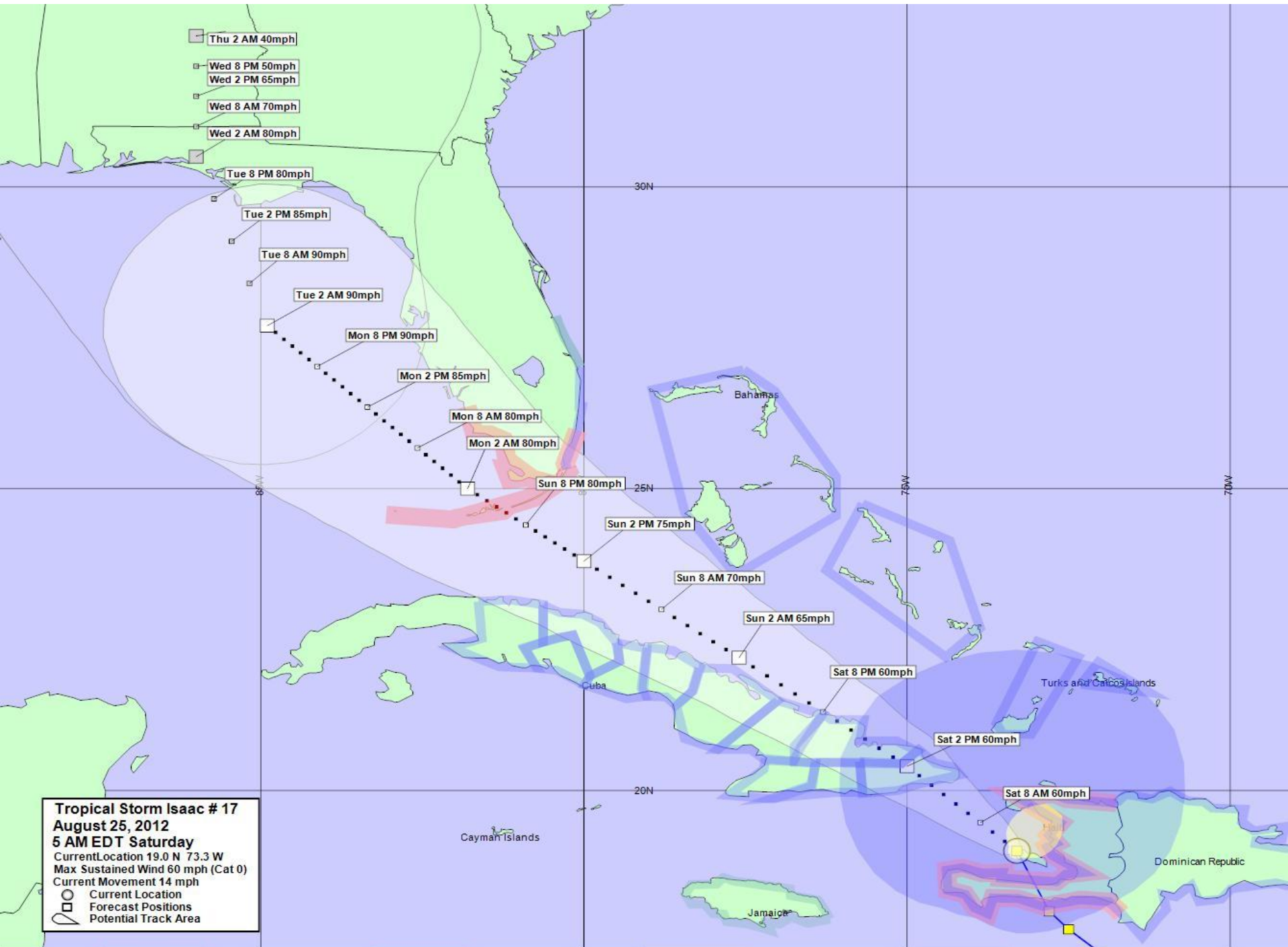
Weather Underground®  
wunderground.com



# European Model (ECMWF)







**Tropical Storm Isaac #17**  
**August 25, 2012**  
**5 AM EDT Saturday**  
Current Location 19.0 N 73.3 W  
Max Sustained Wind 60 mph (Cat 0)  
Current Movement 14 mph  
○ Current Location  
□ Forecast Positions  
Potential Track Area

Hurricane Warning

Hurricane Watch

Trop. Storm Warning

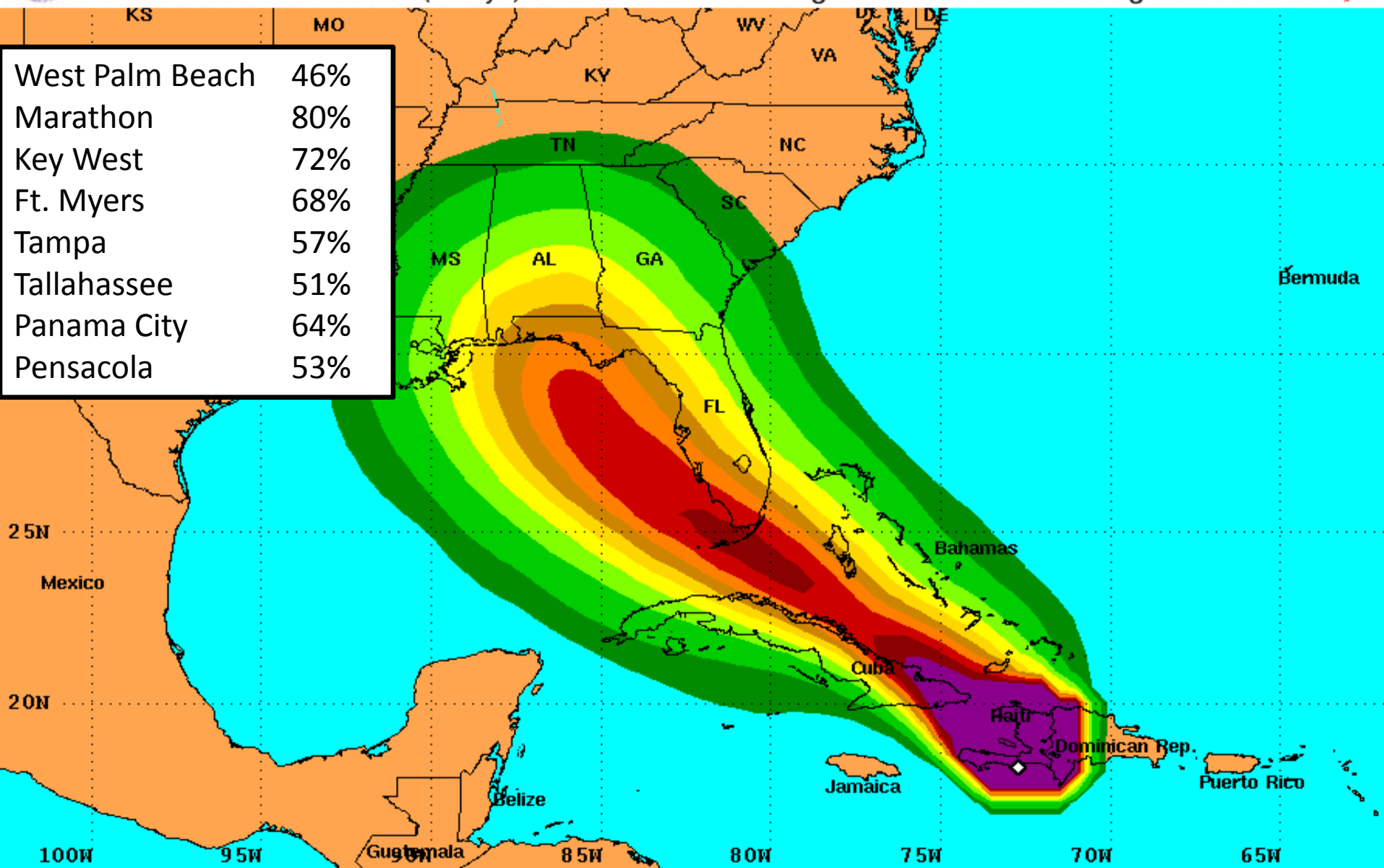
Trop. Storm Watch





# Tropical Storm Force Wind Speed Probabilities

For the 120 hours (5 days) from 2 AM EDT Sat Aug 25 to 2 AM EDT Thu Aug 30



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

◆ indicates TROPICAL STORM ISAAC center location at 2 AM EDT Sat Aug 25 2012 (Forecast/Advisory #17)

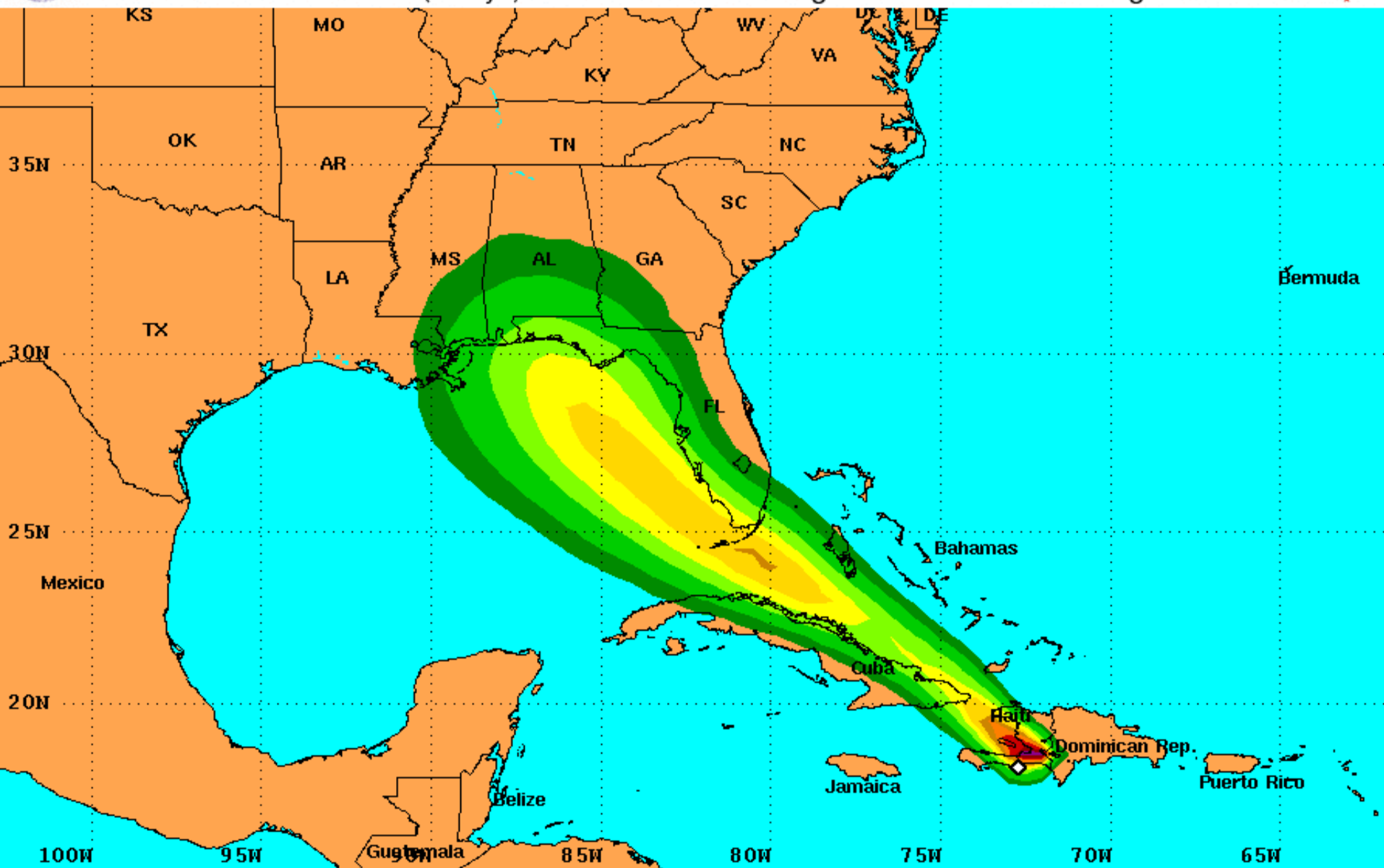




# 50-knot Wind Speed Probabilities



For the 120 hours (5 days) from 2 AM EDT Sat Aug 25 to 2 AM EDT Thu Aug 30



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

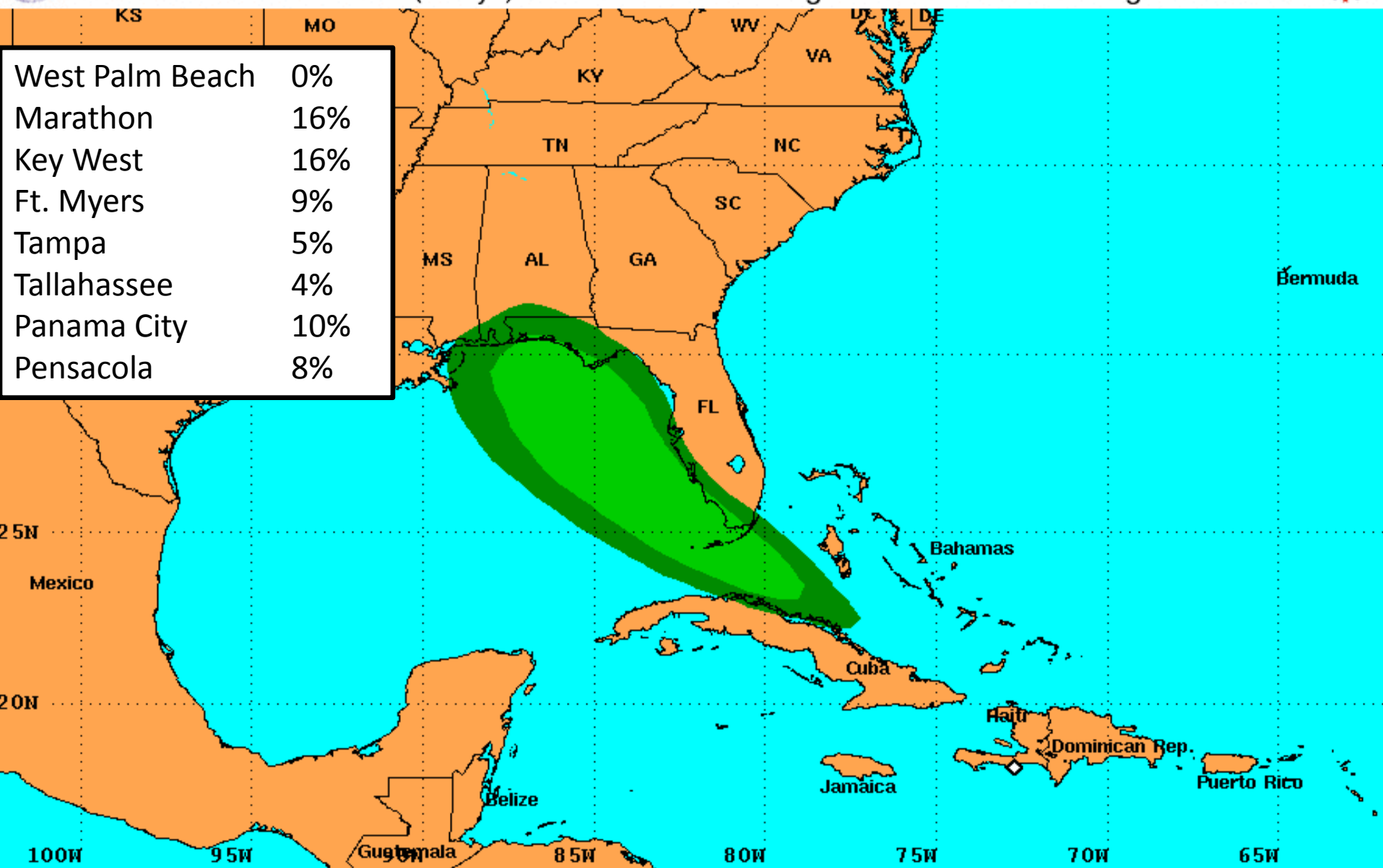
◇ indicates TROPICAL STORM ISAAC center location at 2 AM EDT Sat Aug 25 2012 (Forecast/Advisory #17)





# Hurricane Force Wind Speed Probabilities

For the 120 hours (5 days) from 2 AM EDT Sat Aug 25 to 2 AM EDT Thu Aug 30

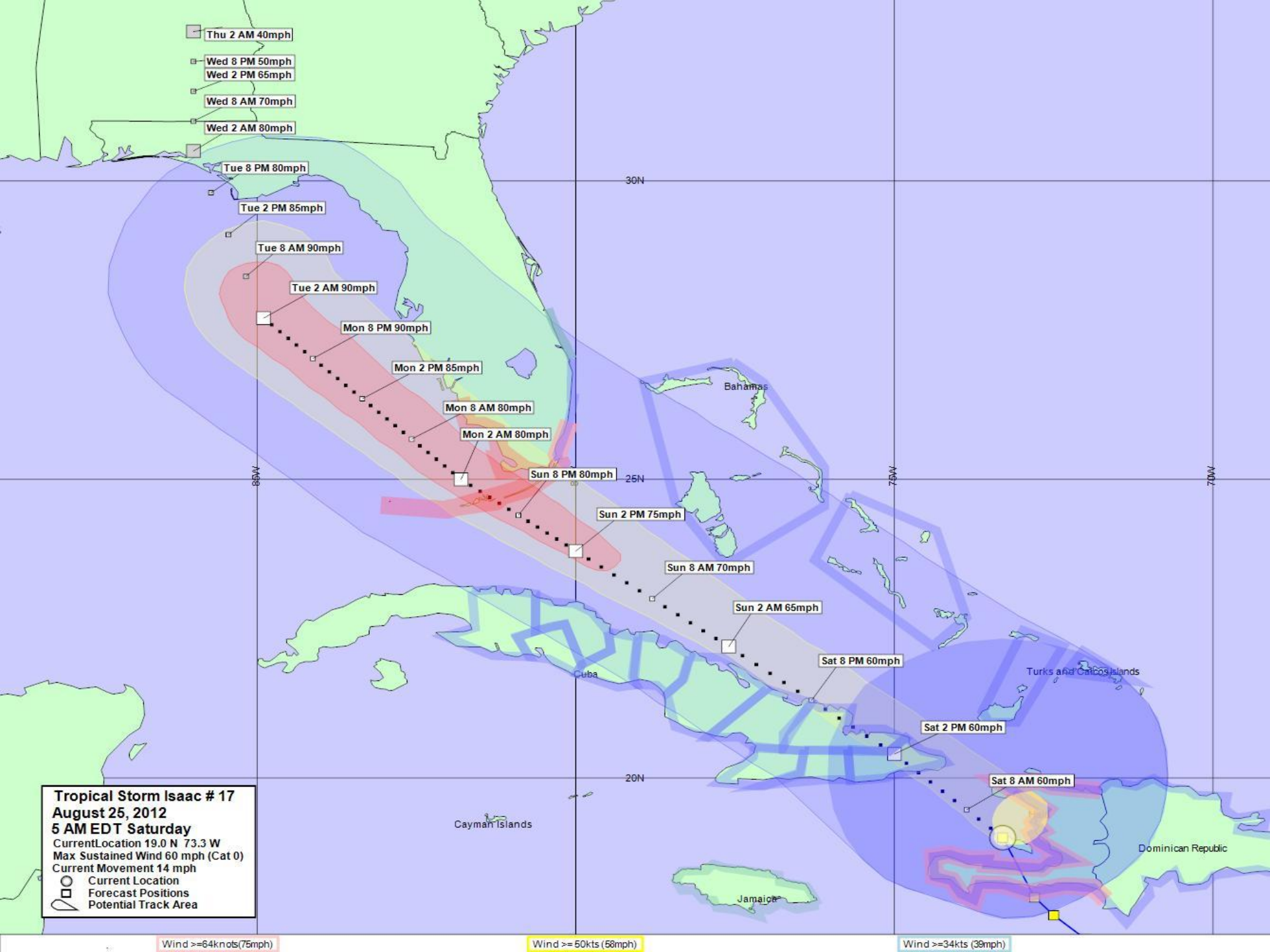


Probability of hurricane force surface winds (1-minute average  $\geq 74$  mph) from all tropical cyclones

◆ indicates TROPICAL STORM ISAAC center location at 2 AM EDT Sat Aug 25 2012 (Forecast/Advisory #17)



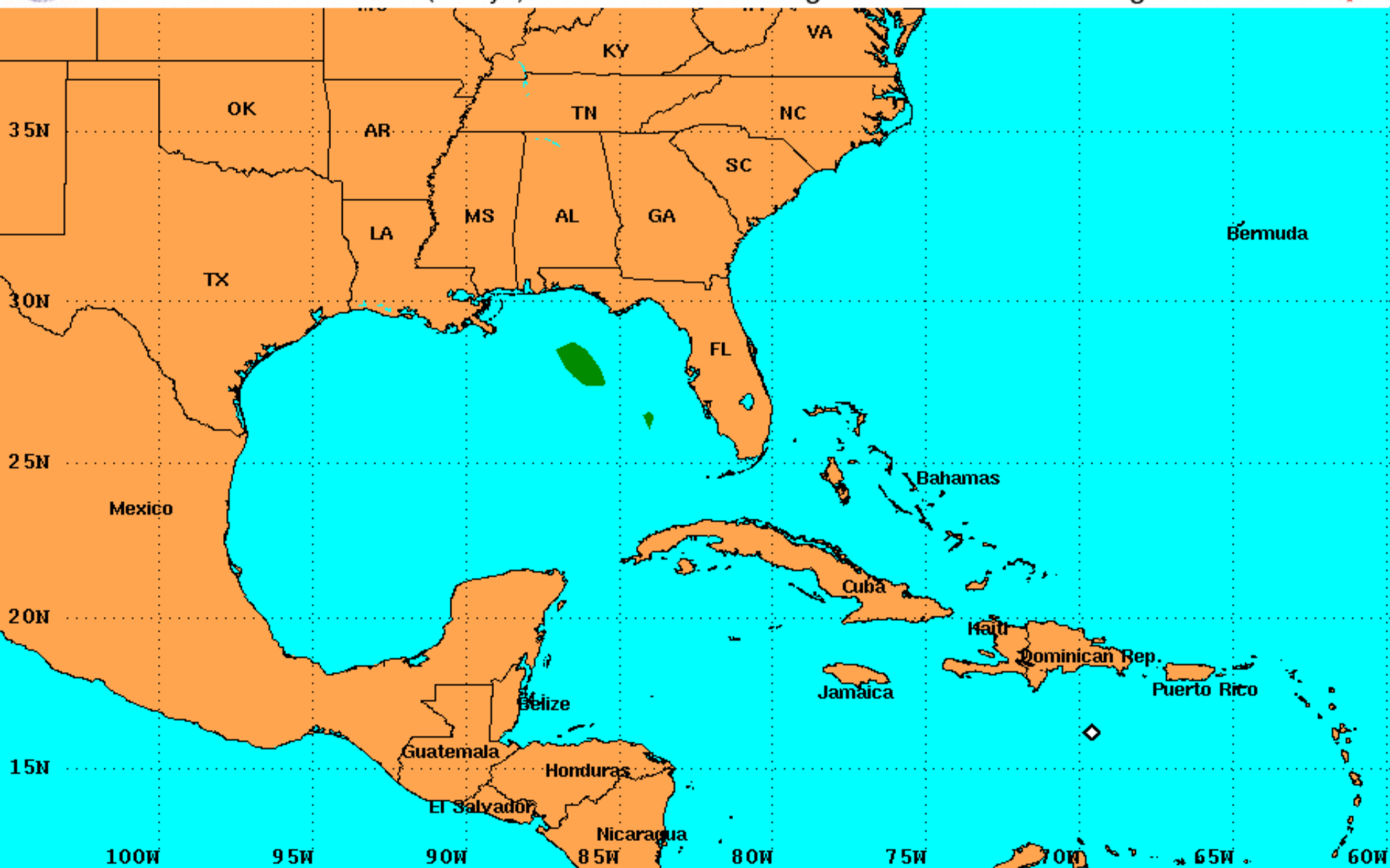






# Hurricane Force Wind Speed Probabilities

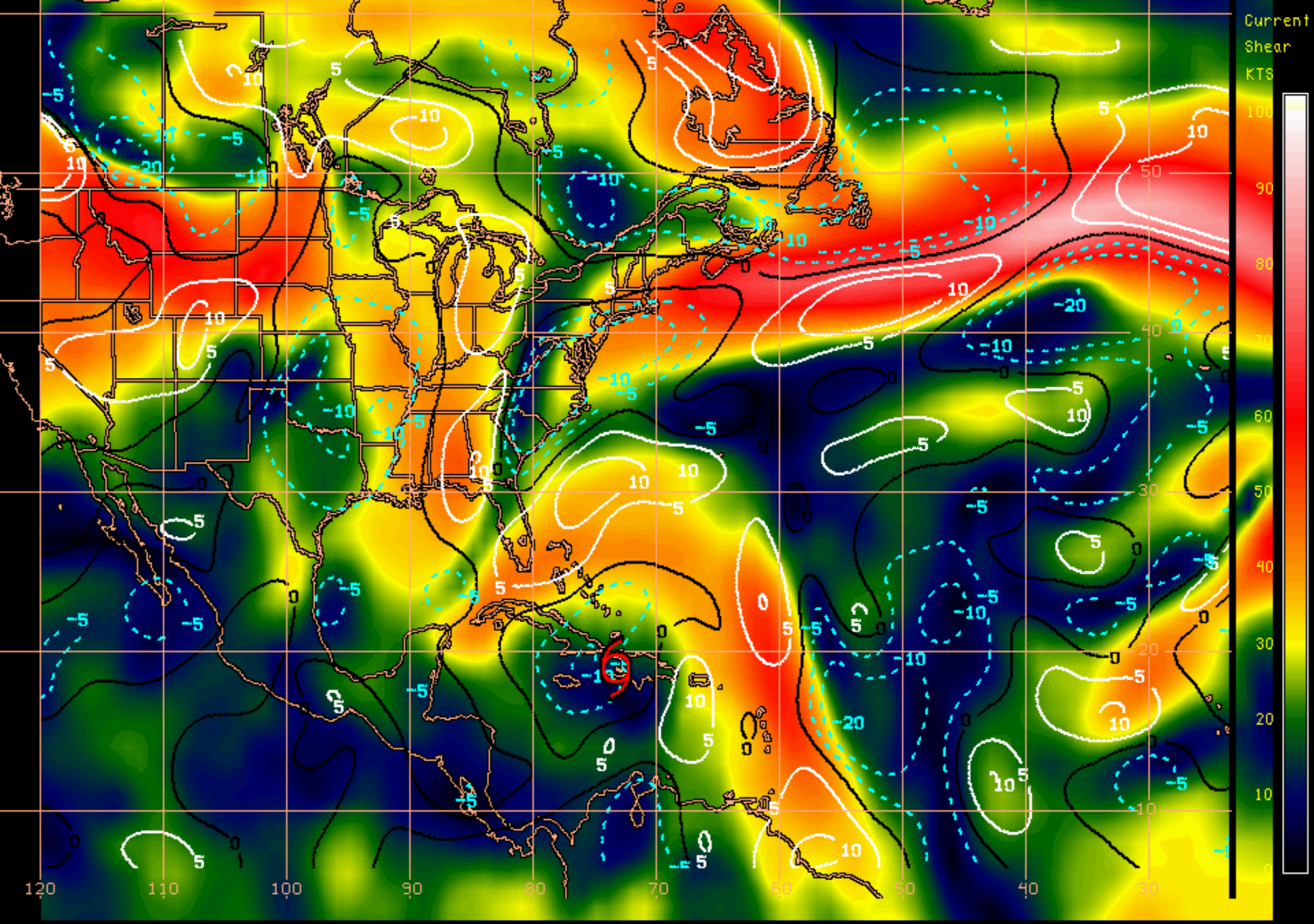
For the 120 hours (5 days) from 2 AM EDT Fri Aug 24 to 2 AM EDT Wed Aug 29



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 Fri Aug 24 2012 (Forecast/Advisory #13)

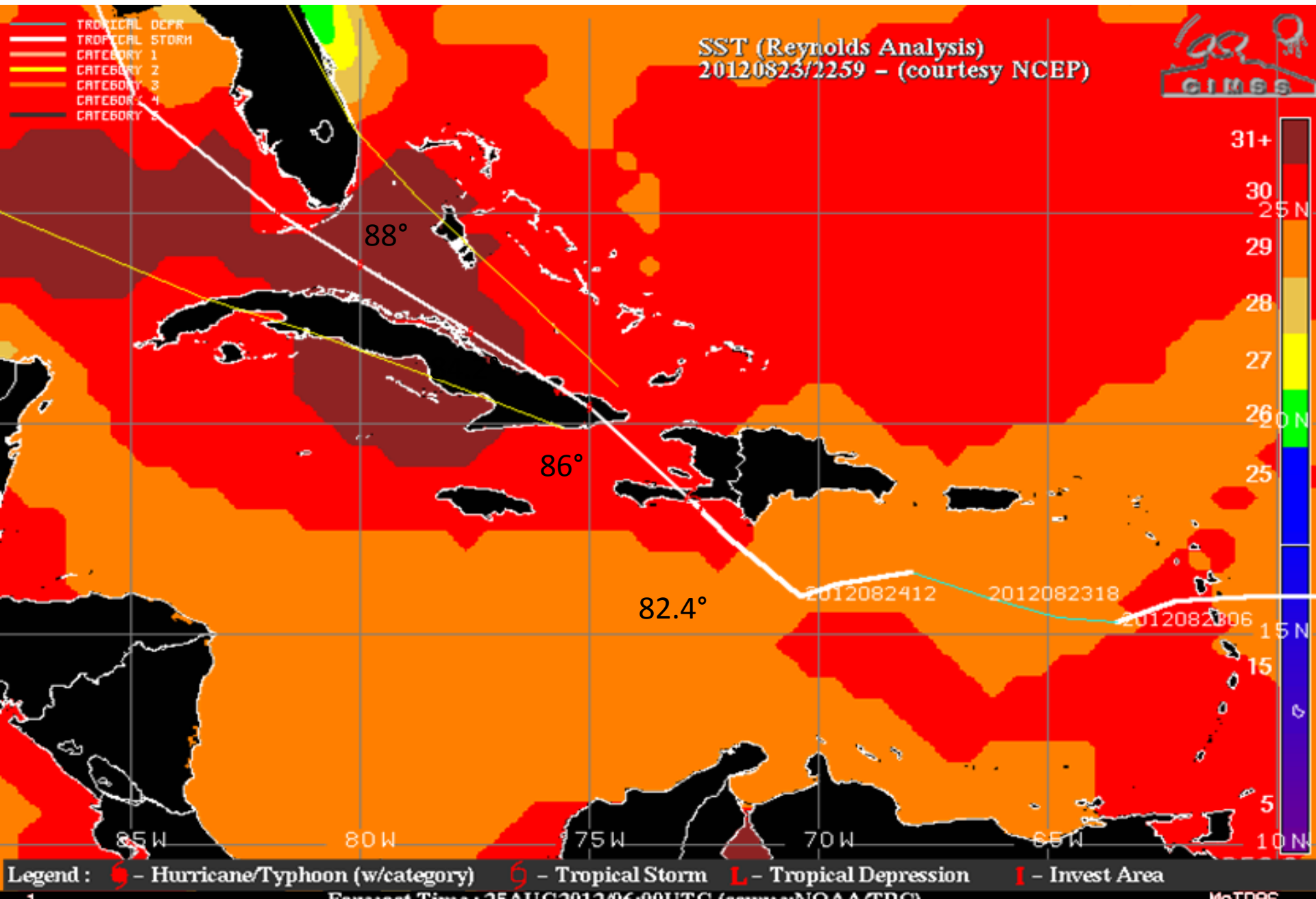




Shear Tendency (KTS) Over Past 24 Hours: Increasing — Decreasing ----



# Sea Surface Temperatures Around Isaac







Intensity (Maximum Wind Speed) Probability Table  
Tropical Storm Isaac Advisory Number 17  
5:00 AM EDT Aug 25 2012



Wind Range (mph)	Forecast Time						
	12 hour for 2 PM Sat	24 hour for 2 AM Sun	36 hour for 2 PM Sun	48 hour for 2 AM Mon	72 hour for 2 AM Tue	96 hour for 2 AM Wed	120 hour for 2 AM Thu
Dissipated	<1%	4%	4%	4%	7%	14%	41%
Tropical Depression (<39)	3%	17%	7%	7%	7%	5%	30%
Tropical Storm (39-73)	89%	67%	53%	48%	34%	43%	21%
Hurricane (all categories)	8%	13%	37%	42%	52%	38%	8%
-- Category 1 (74-95)	7%	11%	31%	30%	34%	28%	5%
-- Category 2 (96-110)	1%	2%	4%	8%	13%	7%	2%
-- Category 3 (111-130)	<1%	<1%	2%	3%	5%	2%	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	60 mph	65 mph	75 mph	80 mph	90 mph	80 mph	40 mph

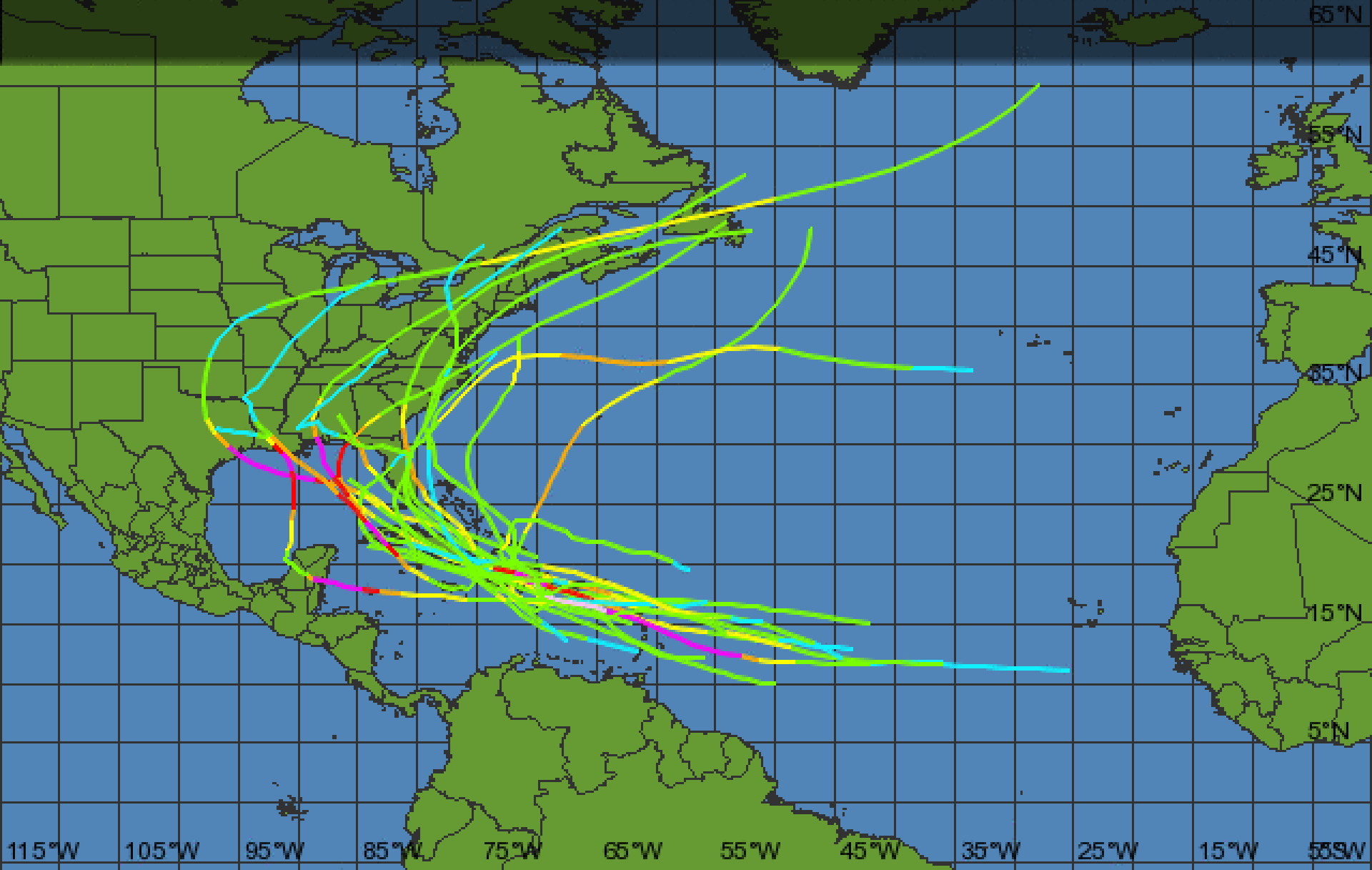


# Tropical Storm Isaac

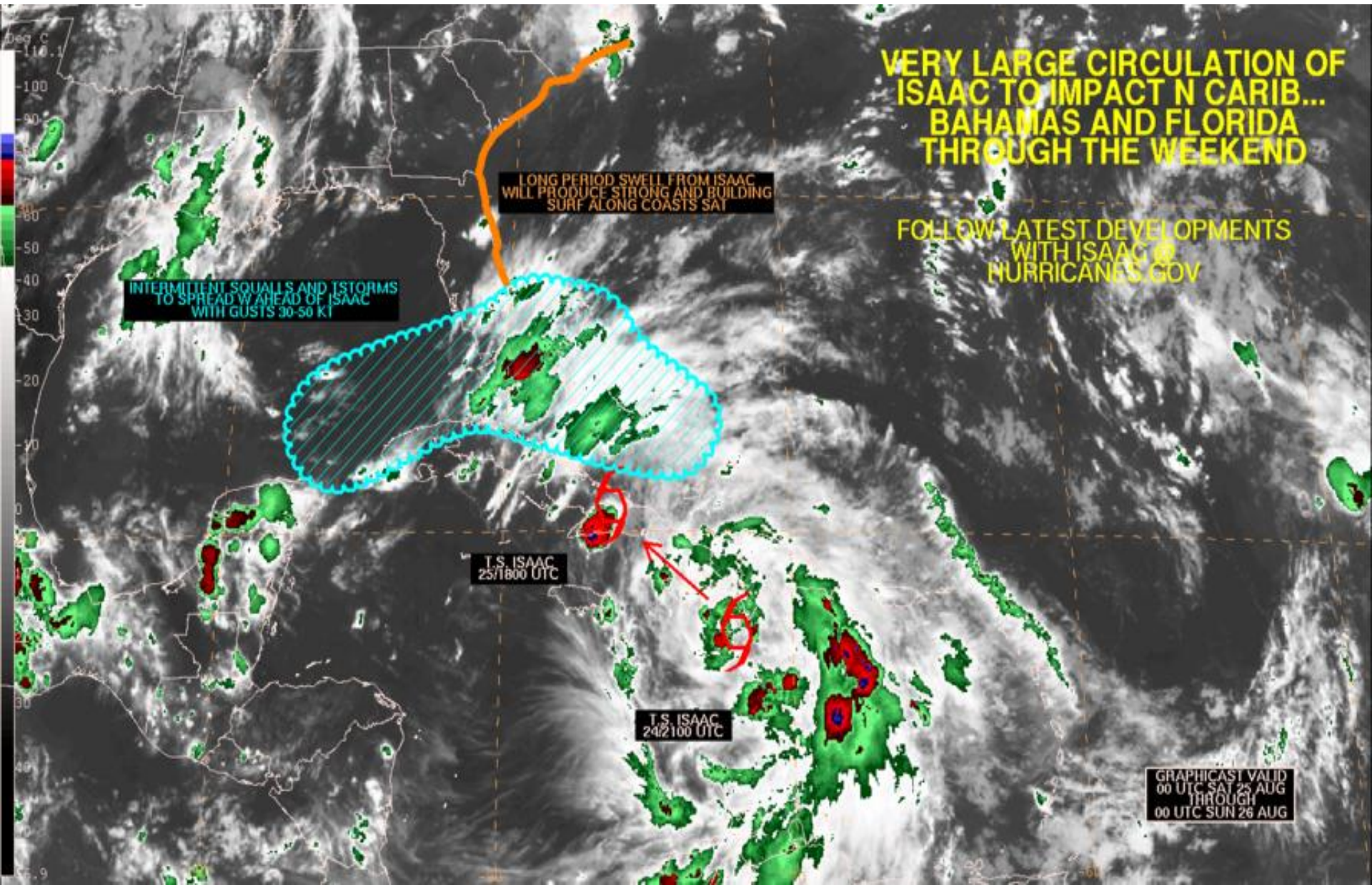
Tracks of all August  
Tropical Storms  
Within 2 degrees of Isaac  
Between 1851 and 2011

## 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



# Report for Tropical Storm Isaac

## Based on Advisory 17 Issued 08/25/12 5AM EDT

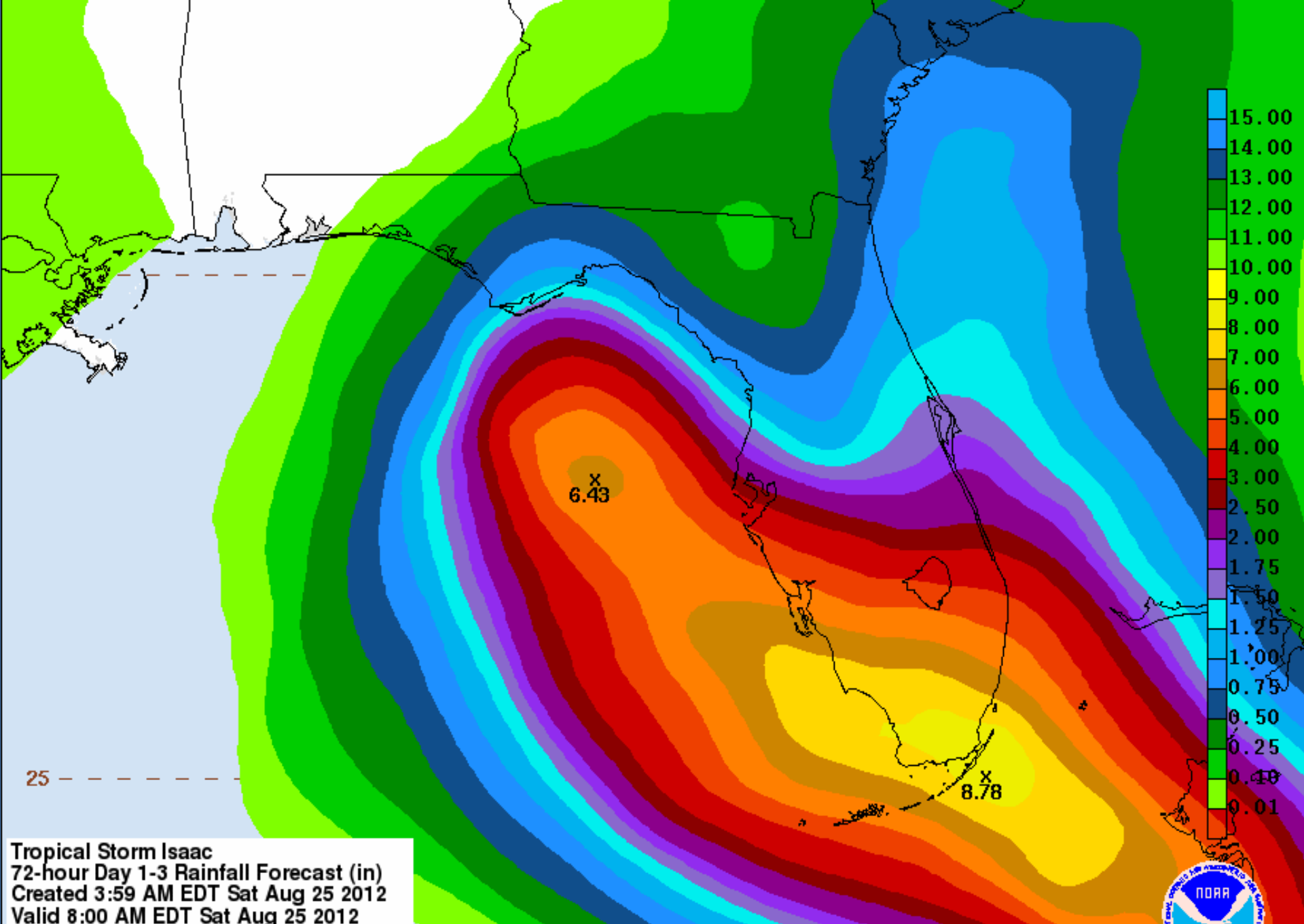
### Wind Timing for Local Areas Only ( 52 Items)



Location	34kt(39mph)	50kt(58mph)	64kt(74mph)	64ktEND(dur)	50ktEND(dur)	34ktEND(dur)	Peak Wind
FL Monroe	08/26 07E	08/26 17E	08/26 22E	08/27 02E [04]	08/27 07E [14]	08/27 16E [33]	70kt 08/26 22E
FL Dade	08/26 08E	08/26 19E			08/27 03E [08]	08/27 14E [30]	59kt 08/26 22E
FL Broward	08/26 11E					08/27 16E [29]	48kt 08/27 00E
FL Collier	08/26 12E	08/27 01E			08/27 11E [10]	08/27 21E [33]	60kt 08/27 05E
FL Palm Beach	08/26 13E					08/27 16E [27]	45kt 08/27 01E
FL Hendry	08/26 14E					08/27 20E [30]	48kt 08/27 03E
FL Lee	08/26 17E	08/27 05E			08/27 12E [07]	08/28 00E [31]	54kt 08/27 07E
FL Glades	08/26 17E					08/27 21E [28]	47kt 08/27 08E
FL Martin	08/26 18E					08/27 15E [21]	41kt 08/27 06E
FL Charlotte	08/26 19E	08/27 09E			08/27 15E [06]	08/28 02E [31]	53kt 08/27 11E
FL Okeechobee	08/26 19E					08/27 19E [24]	40kt 08/27 03E
FL St Lucie	08/26 20E					08/27 14E [18]	38kt 08/27 02E
FL Highlands	08/26 20E					08/27 22E [26]	45kt 08/27 07E
FL Desoto	08/26 20E					08/28 02E [30]	48kt 08/27 10E
FL Sarasota	08/26 22E	08/27 11E			08/27 15E [04]	Continue	52kt 08/27 13E
FL Manatee	08/26 23E					Continue	49kt 08/27 16E
FL Hardee	08/26 23E					08/28 02E [27]	46kt 08/27 11E
FL Indian River	08/27 00E					08/27 15E [15]	37kt 08/27 05E
FL Osceola	08/27 01E					08/27 22E [21]	39kt 08/27 09E
FL Polk	08/27 01E					08/28 02E [25]	44kt 08/27 11E
FL Hillsborough	08/27 02E					Continue	47kt 08/27 14E
FL Pinellas	08/27 03E					Continue	48kt 08/27 15E
FL Brevard	08/27 04E					08/27 13E [09]	36kt 08/27 07E
FL Sumter	08/27 07E					08/28 05E [22]	40kt 08/27 16E
FL Lake	08/27 07E					08/28 01E [18]	39kt 08/27 13E



FL Pasco	08/27 07E					Continue	45kt 08/27 18E
FL Orange	08/27 08E					08/27 21E [13]	37kt 08/27 12E
FL Hernando	08/27 09E					Continue	43kt 08/27 19E
FL Citrus	08/27 11E					Continue	41kt 08/27 20E
FL Marion	08/27 14E					Continue	37kt 08/27 18E
FL Levy	08/27 14E					Continue	41kt 08/28 04E
FL Dixie	08/27 16E					Continue	40kt 08/28 03E
FL Taylor	08/27 20E					Continue	40kt 08/28 05E
FL Gilchrist	08/27 20E					Continue	37kt 08/28 03E
FL Alachua	08/27 21E					Continue	35kt 08/28 03E
FL Franklin	08/27 22E					Continue	45kt 08/28 05E
FL Lafayette	08/27 22E					Continue	38kt 08/28 04E
FL Wakulla	08/27 22E					Continue	42kt 08/28 05E
FL Liberty	08/27 23E					Continue	42kt 08/28 05E
FL Jefferson	08/27 23E					Continue	40kt 08/28 05E
FL Gulf	08/27 23E					Continue	44kt 08/28 05E
FL Calhoun	08/28 01E					Continue	40kt 08/28 05E
FL Bay	08/28 01E					Continue	41kt 08/28 05E
FL Leon	08/28 01E					Continue	39kt 08/28 05E
FL Madison	08/28 02E					Continue	37kt 08/28 04E
FL Gadsden	08/28 02E					Continue	38kt 08/28 05E
FL Suwannee	08/28 03E					Continue	36kt 08/28 05E
FL Jackson	08/28 04E					Continue	35kt 08/28 05E
FL Washington	08/28 04E					Continue	36kt 08/28 05E
FL Walton	08/28 04E					Continue	35kt 08/28 05E
FL Columbia	08/28 05E					Continue	34kt 08/28 05E



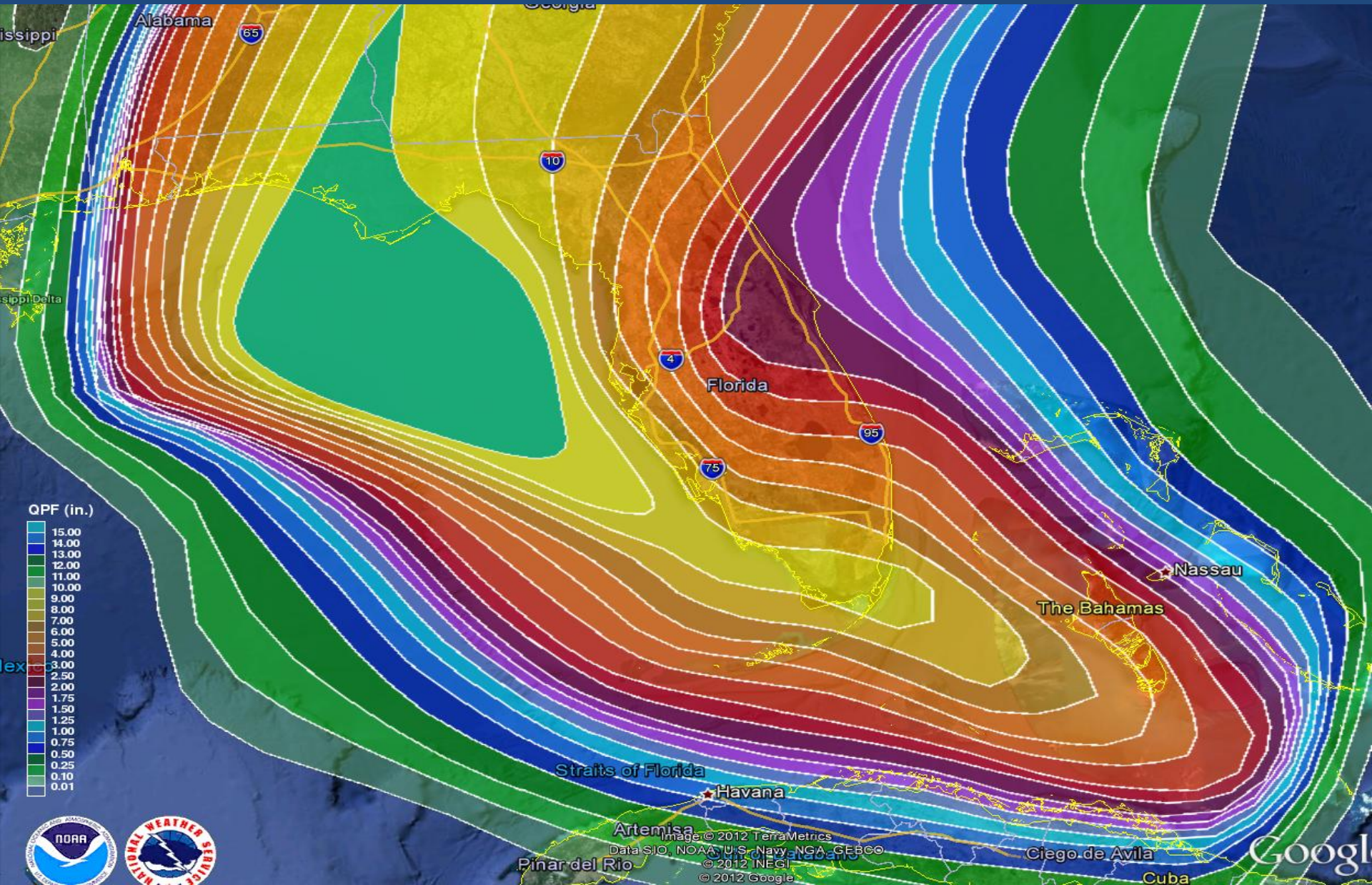
**Tropical Storm Isaac**  
72-hour Day 1-3 Rainfall Forecast (in)  
Created 3:59 AM EDT Sat Aug 25 2012  
Valid 8:00 AM EDT Sat Aug 25 2012  
through 8:00 AM EDT Tue Aug 28 2012  
NOAA/NWS/NCEP/HPC

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



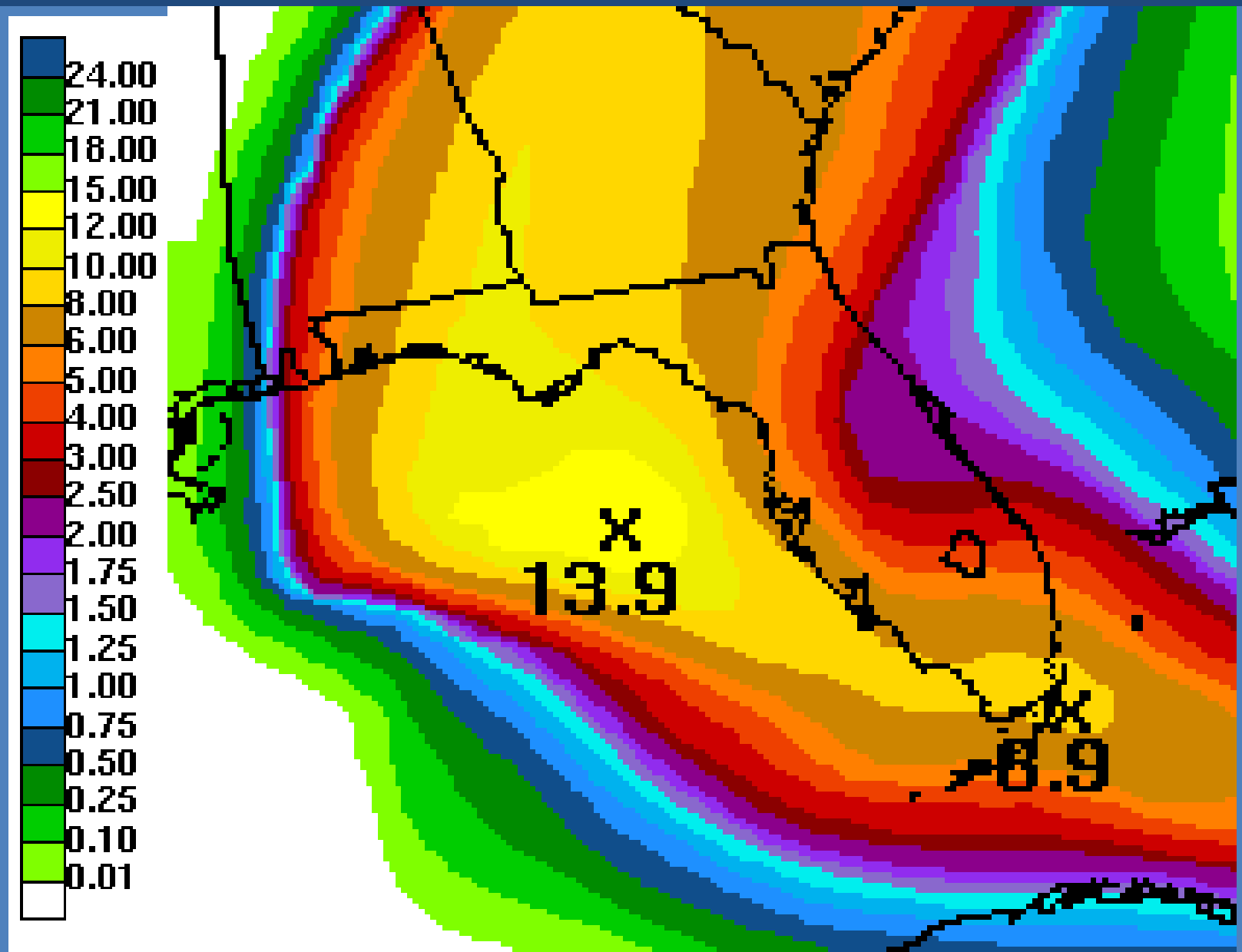


# Forecast Total Rainfall Accumulations (Saturday Through Wednesday)





# *Forecast Total Rainfall Accumulations (Saturday Through Wednesday)*

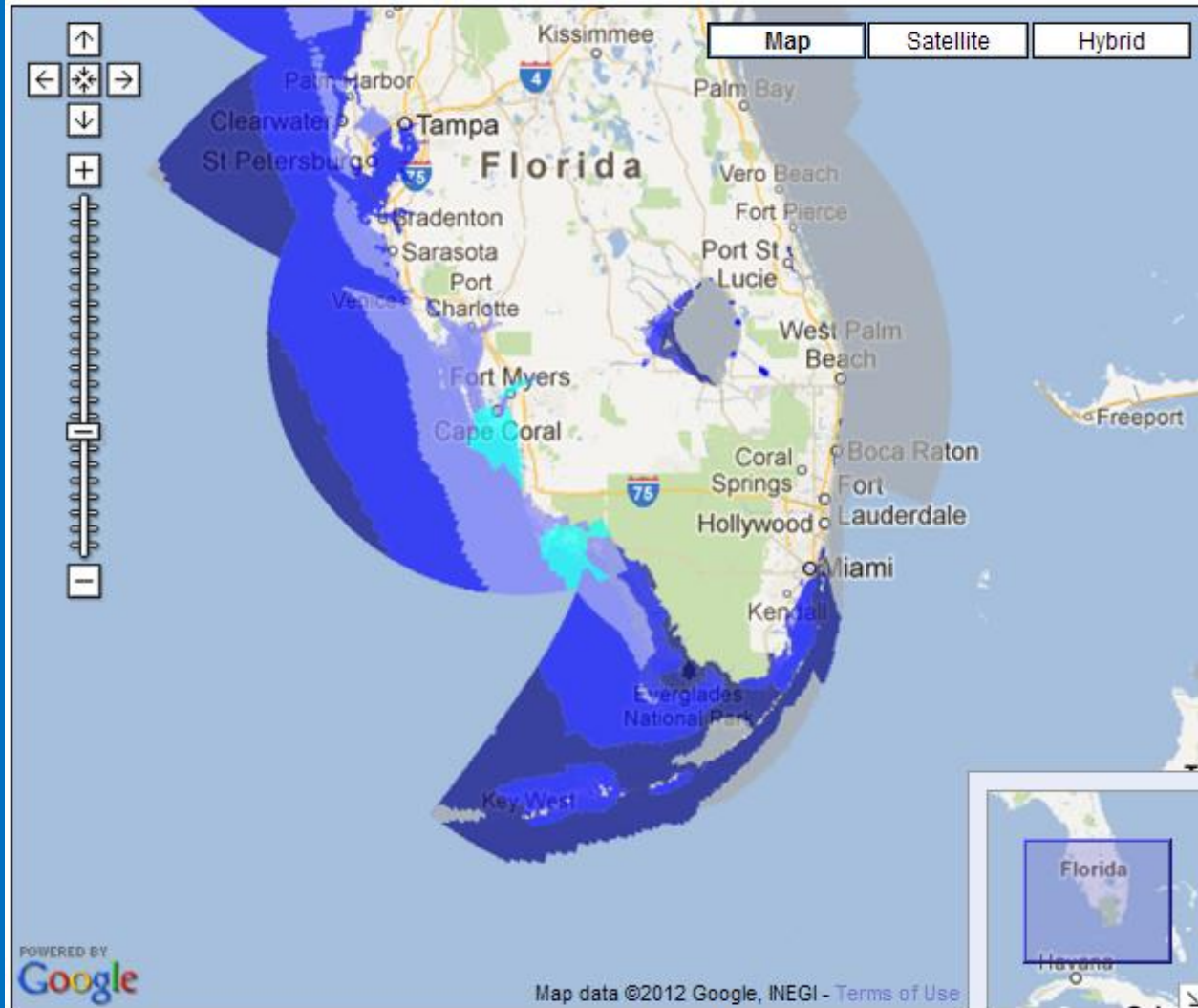


# Storm Surge

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

**Tropical Storm Isaac  
(2012) Advisory 17**

**For the 77 hours from  
05 AM EDT Sat Aug  
25 to 10 AM EDT Tue  
Aug 28**



Lat: 26.0667 Lon: -80.8704

## 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	

## Disclaimer



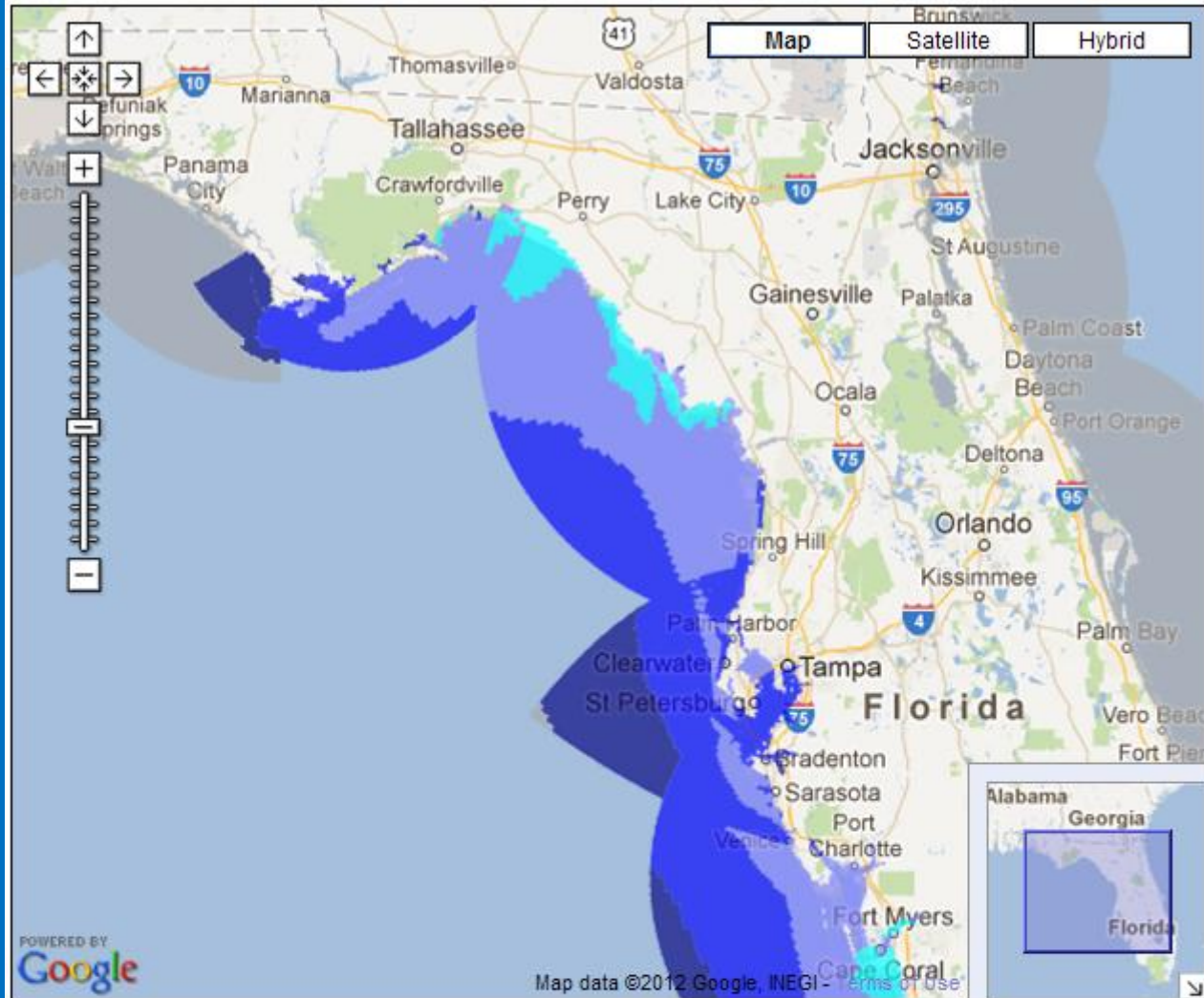
Historical Data:  
NHC this storm  
NHC all storms  
MDL

# Storm Surge

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

**Tropical Storm Isaac (2012) Advisory 17**

**For the 77 hours from 05 AM EDT Sat Aug 25 to 10 AM EDT Tue Aug 28**



Lat: 28.2076 Lon: -84.3091

## 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	

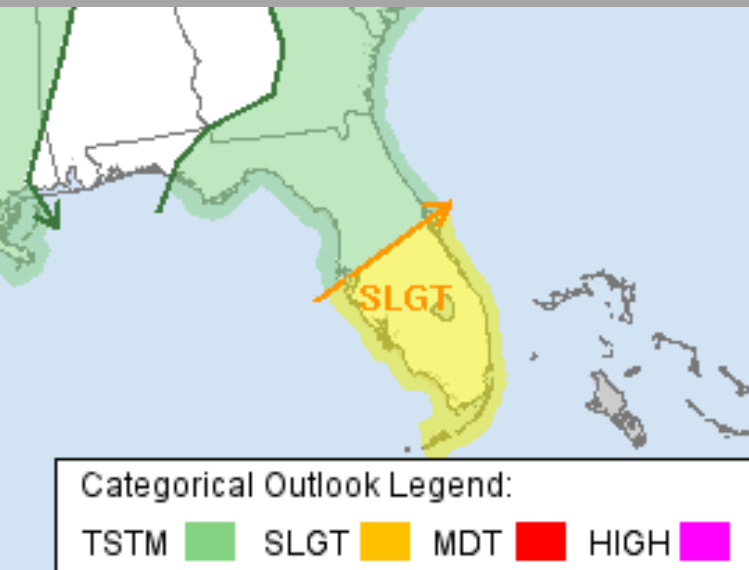
## Disclaimer



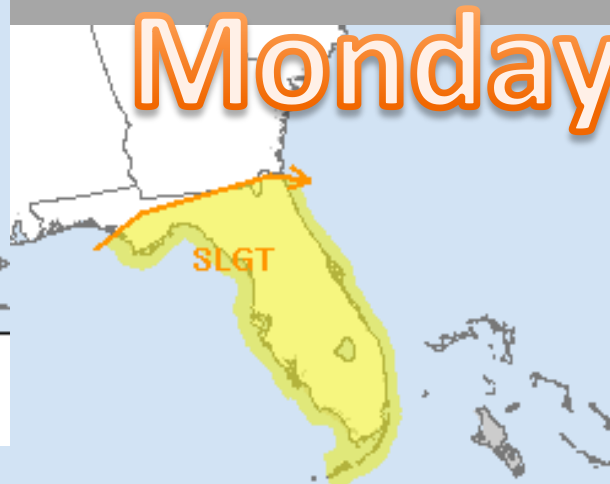
Historical Data:  
NHC this storm  
NHC all storms  
MDL



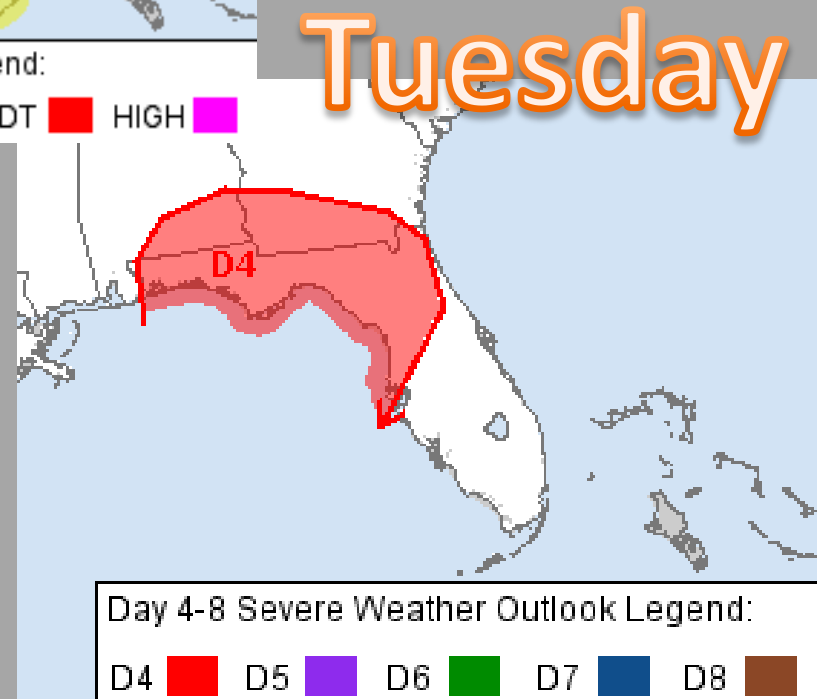
# Risk of Severe Weather



Sunday



Monday



Tuesday



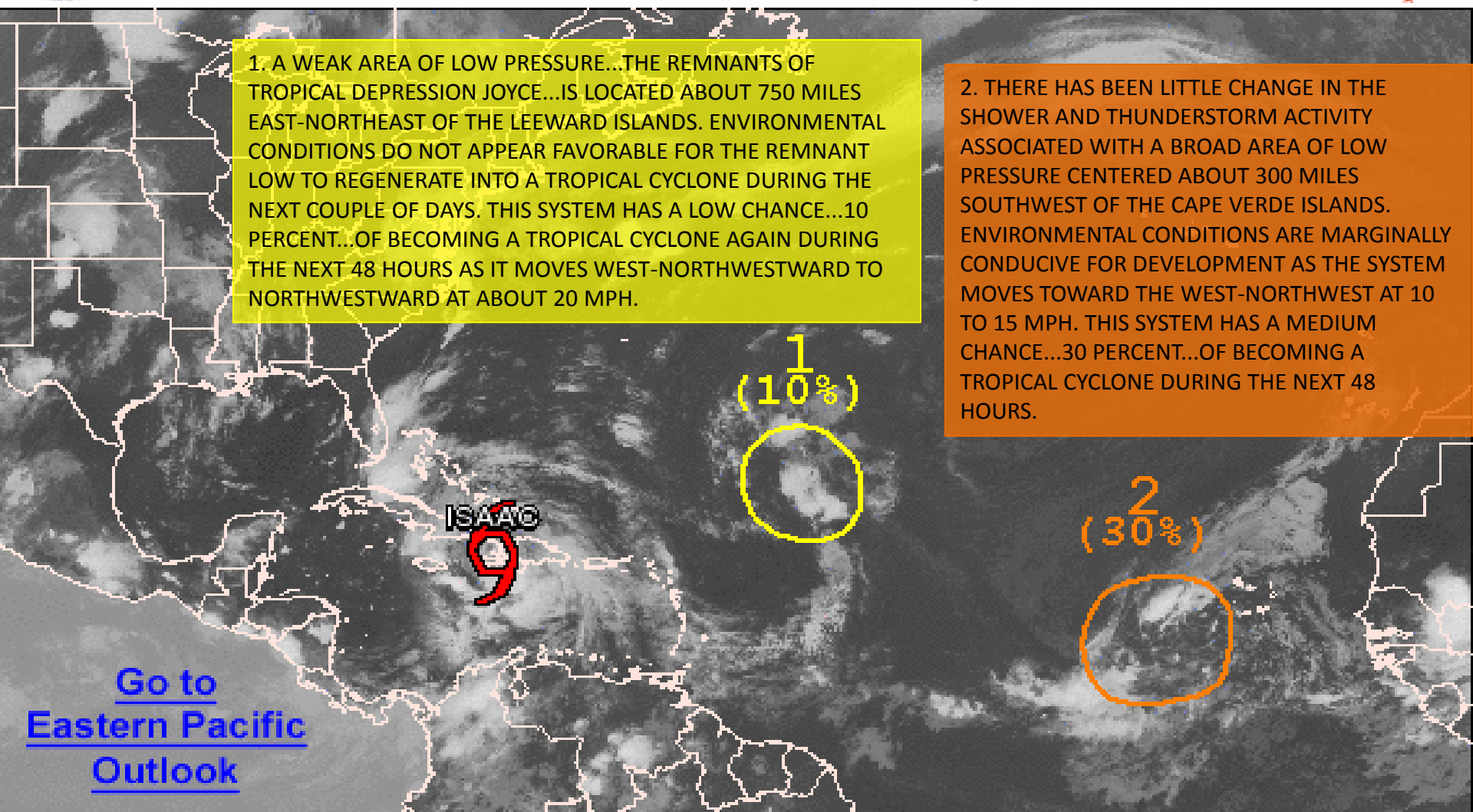
# Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



1. A WEAK AREA OF LOW PRESSURE...THE REMNANTS OF TROPICAL DEPRESSION JOYCE...IS LOCATED ABOUT 750 MILES EAST-NORTHEAST OF THE LEEWARD ISLANDS. ENVIRONMENTAL CONDITIONS DO NOT APPEAR FAVORABLE FOR THE REMNANT LOW TO REGENERATE INTO A TROPICAL CYCLONE DURING THE NEXT COUPLE OF DAYS. THIS SYSTEM HAS A LOW CHANCE...10 PERCENT...OF BECOMING A TROPICAL CYCLONE AGAIN DURING THE NEXT 48 HOURS AS IT MOVES WEST-NORTHWESTWARD TO NORTHWESTWARD AT ABOUT 20 MPH.

2. THERE HAS BEEN LITTLE CHANGE IN THE SHOWER AND THUNDERSTORM ACTIVITY ASSOCIATED WITH A BROAD AREA OF LOW PRESSURE CENTERED ABOUT 300 MILES SOUTHWEST OF THE CAPE VERDE ISLANDS. ENVIRONMENTAL CONDITIONS ARE MARGINALLY CONDUCIVE FOR DEVELOPMENT AS THE SYSTEM MOVES TOWARD THE WEST-NORTHWEST AT 10 TO 15 MPH. THIS SYSTEM HAS A MEDIUM CHANCE...30 PERCENT...OF BECOMING A TROPICAL CYCLONE DURING THE NEXT 48 HOURS.



200 AM EDT SAT AUG 25 2012

Satellite Image: 0122 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%

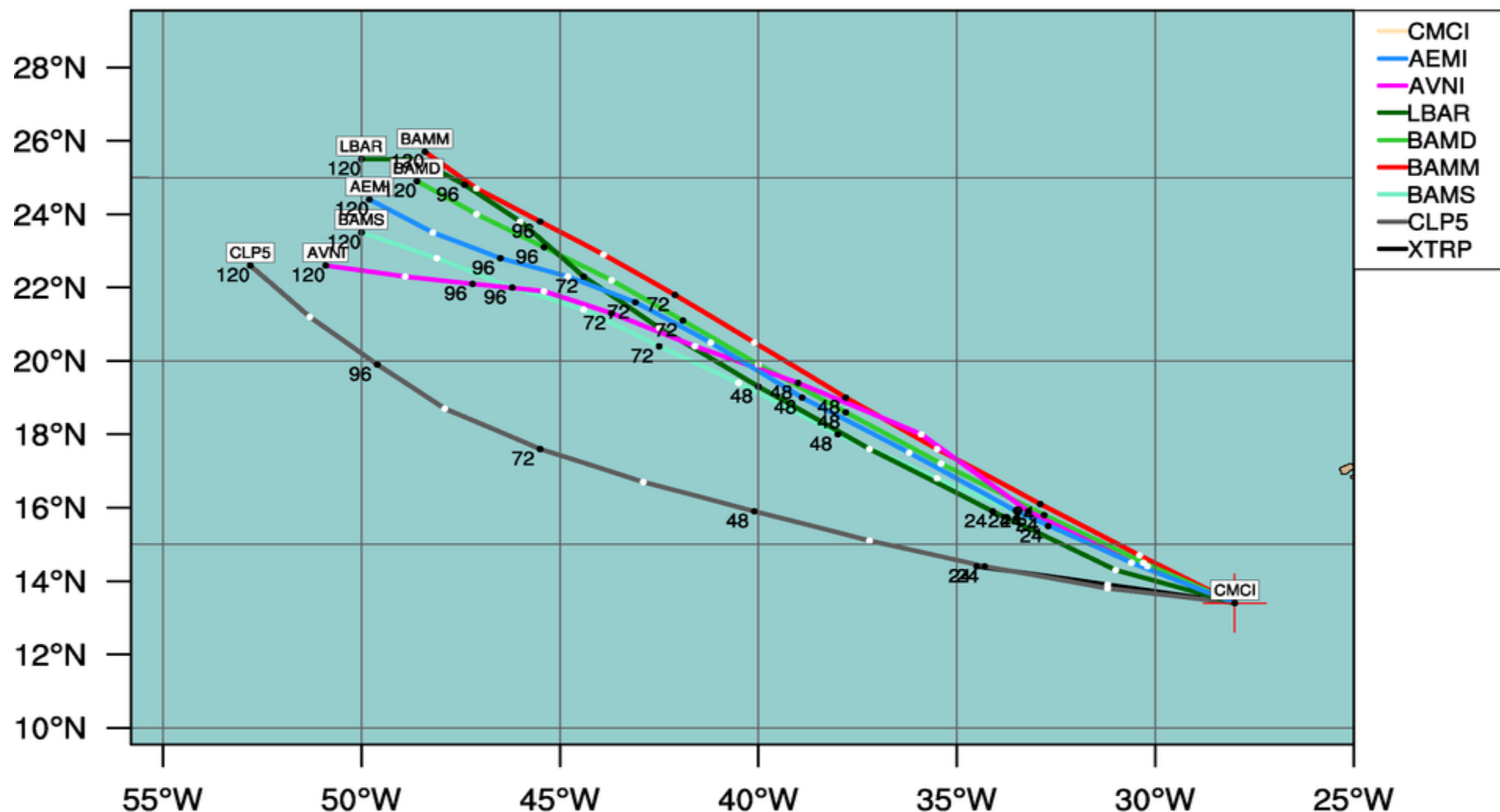
 High >50%

# DISTURBANCE INVEST (AL97)

Early-cycle track guidance initialized at 0600 UTC, 25 August 2012

Current Intensity: 25 kt

Current Basin: North Atlantic



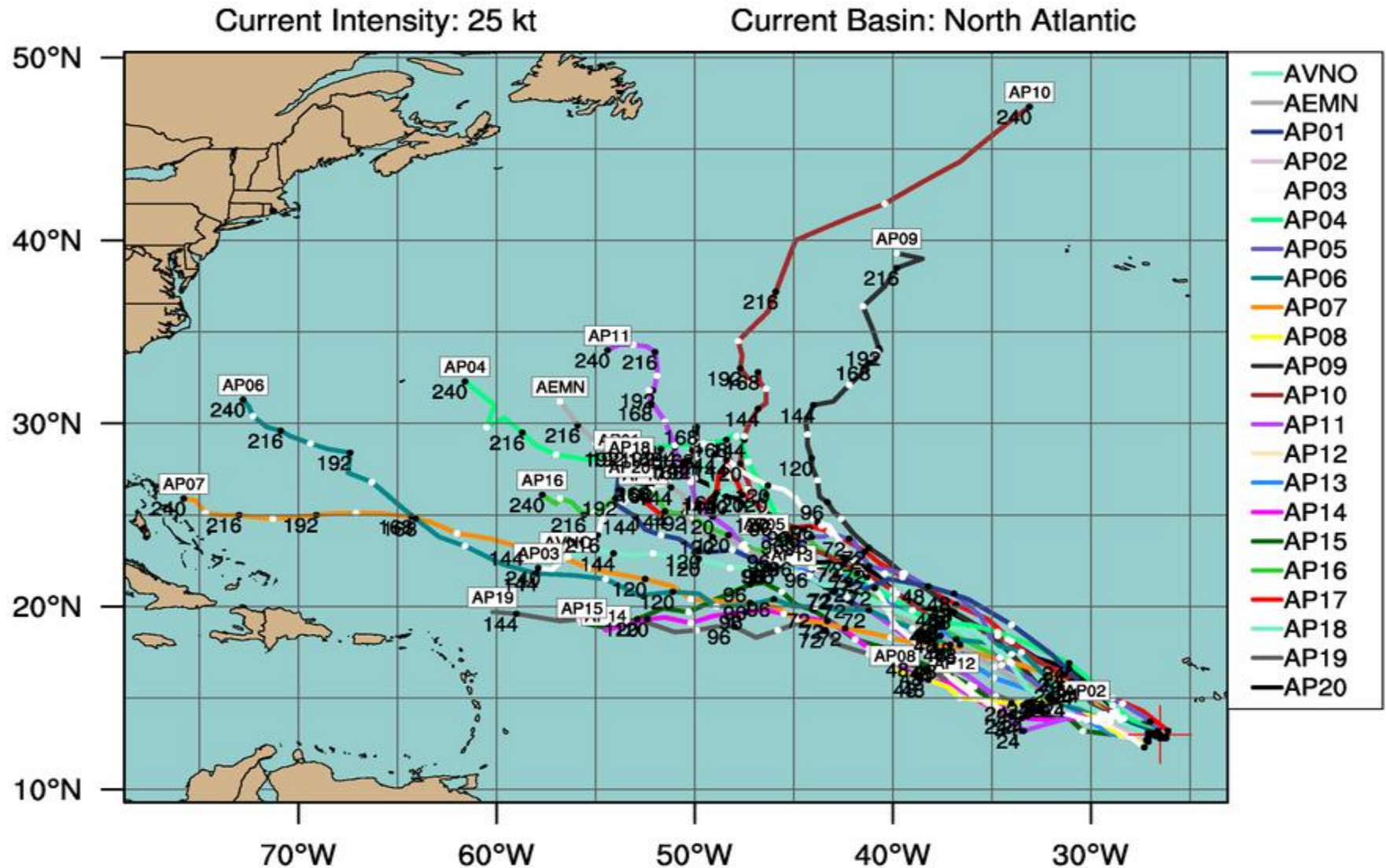
By using this plot, the user agrees to the UCAR Terms of Use  
which can be accessed at: <http://www2.ucar.edu/terms-of-use>

Plot generated at 0752 UTC 25 August 2012



# DISTURBANCE INVEST (AL97)

NCEP GFS Ensemble track guidance initialized at 0000 UTC, 25 August 2012



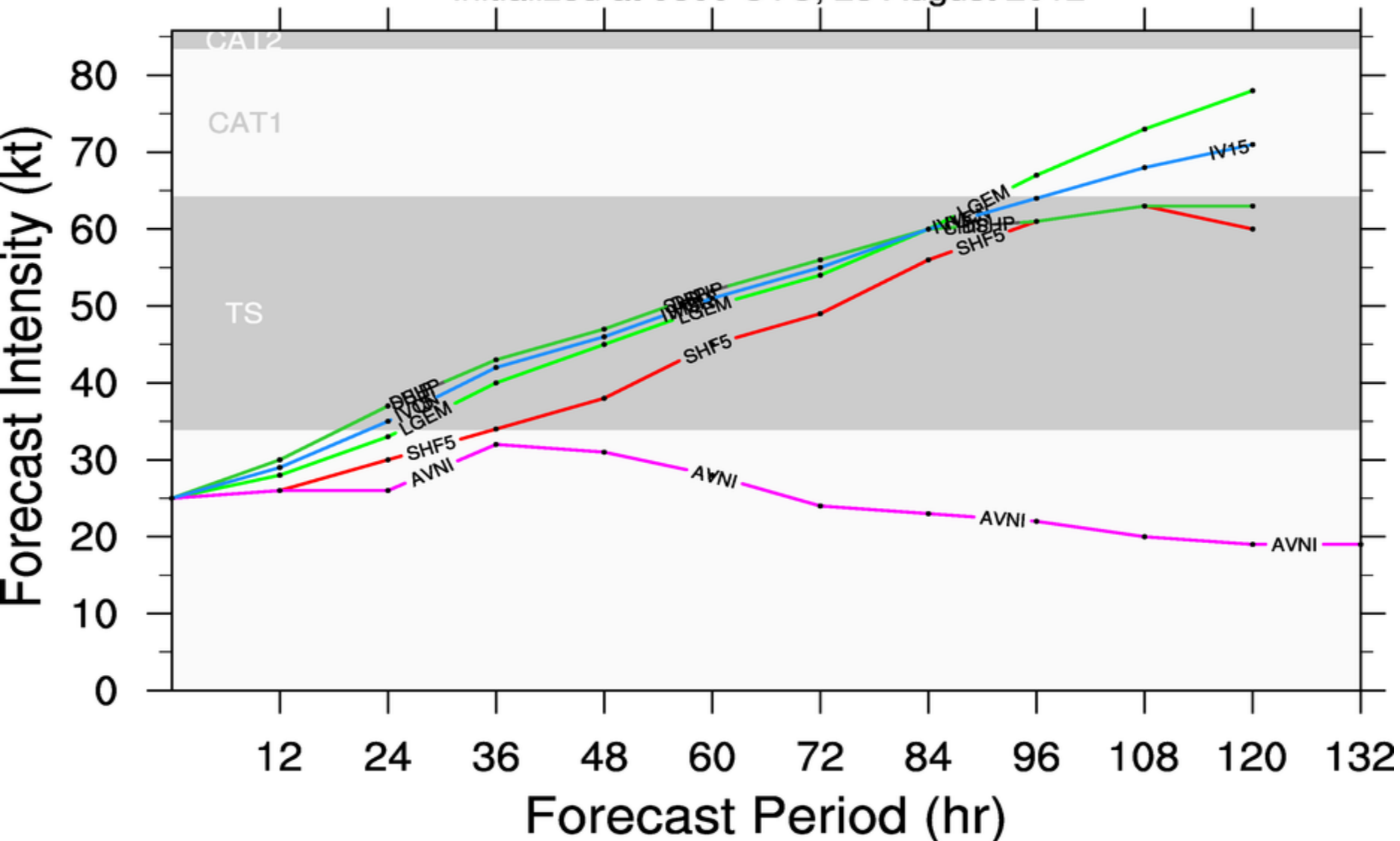
By using this plot, the user agrees to the UCAR Terms of Use  
which can be accessed at: <http://www2.ucar.edu/terms-of-use>

Plot generated at 0752 UTC 25 August 2012

# DISTURBANCE INVEST (AL97)

## Early-cycle intensity guidance

initialized at 0600 UTC, 25 August 2012



By using this plot, the user agrees to the UCAR Terms of Use  
which can be accessed at: <http://www2.ucar.edu/terms-of-use>

Plot generated at 0752 UTC 25 August 2012