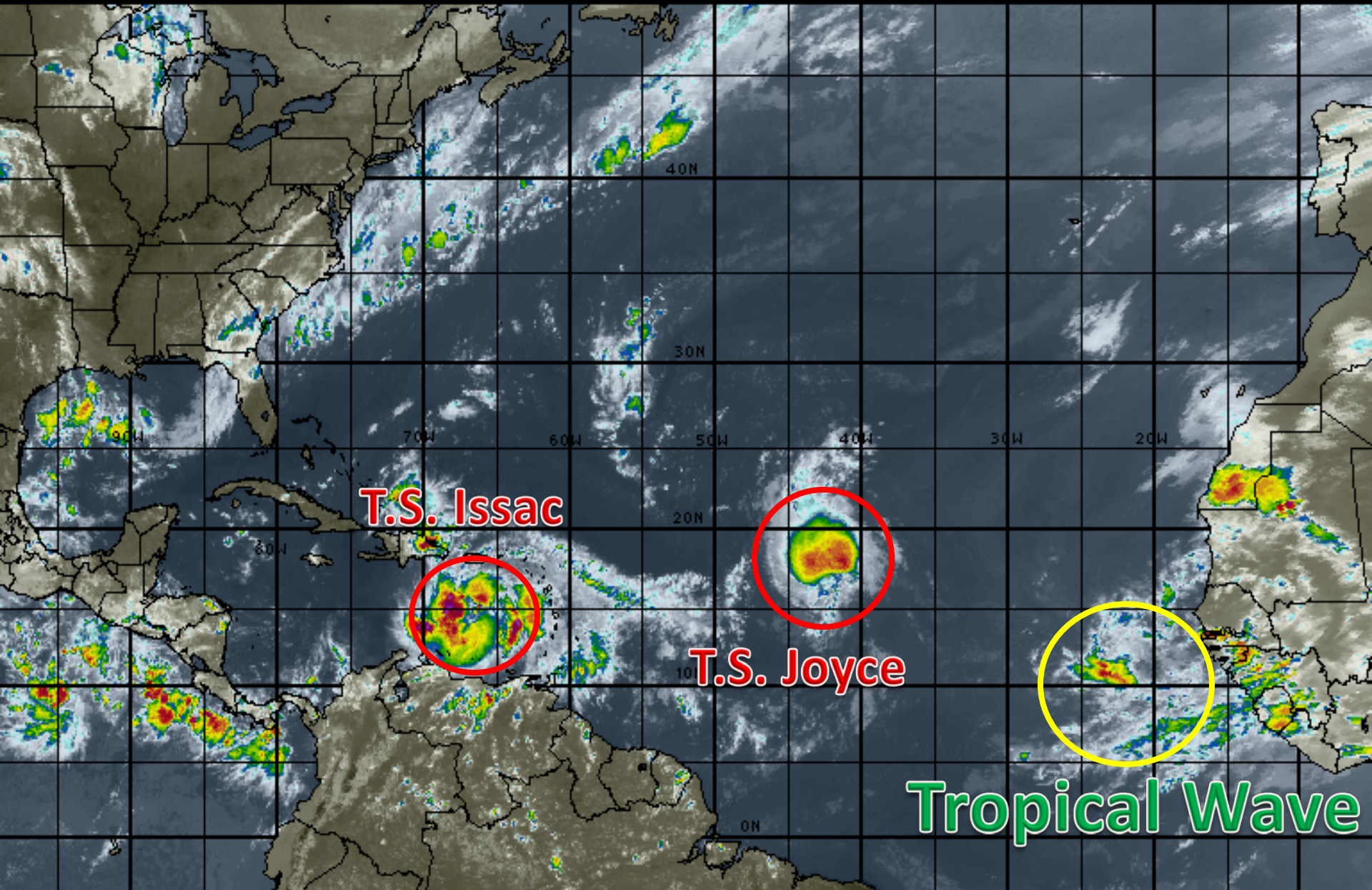


# Atlantic Basin Satellite Image

18:00 23-AUG-2012 GMT ©Copyright WSI Corporation <http://www.wsi.com>



# Tropical Storm Isaac

5 PM EDT Thu Aug 23 2012

Position 16.0 N 67.1 W

Maximum Winds 40 mph

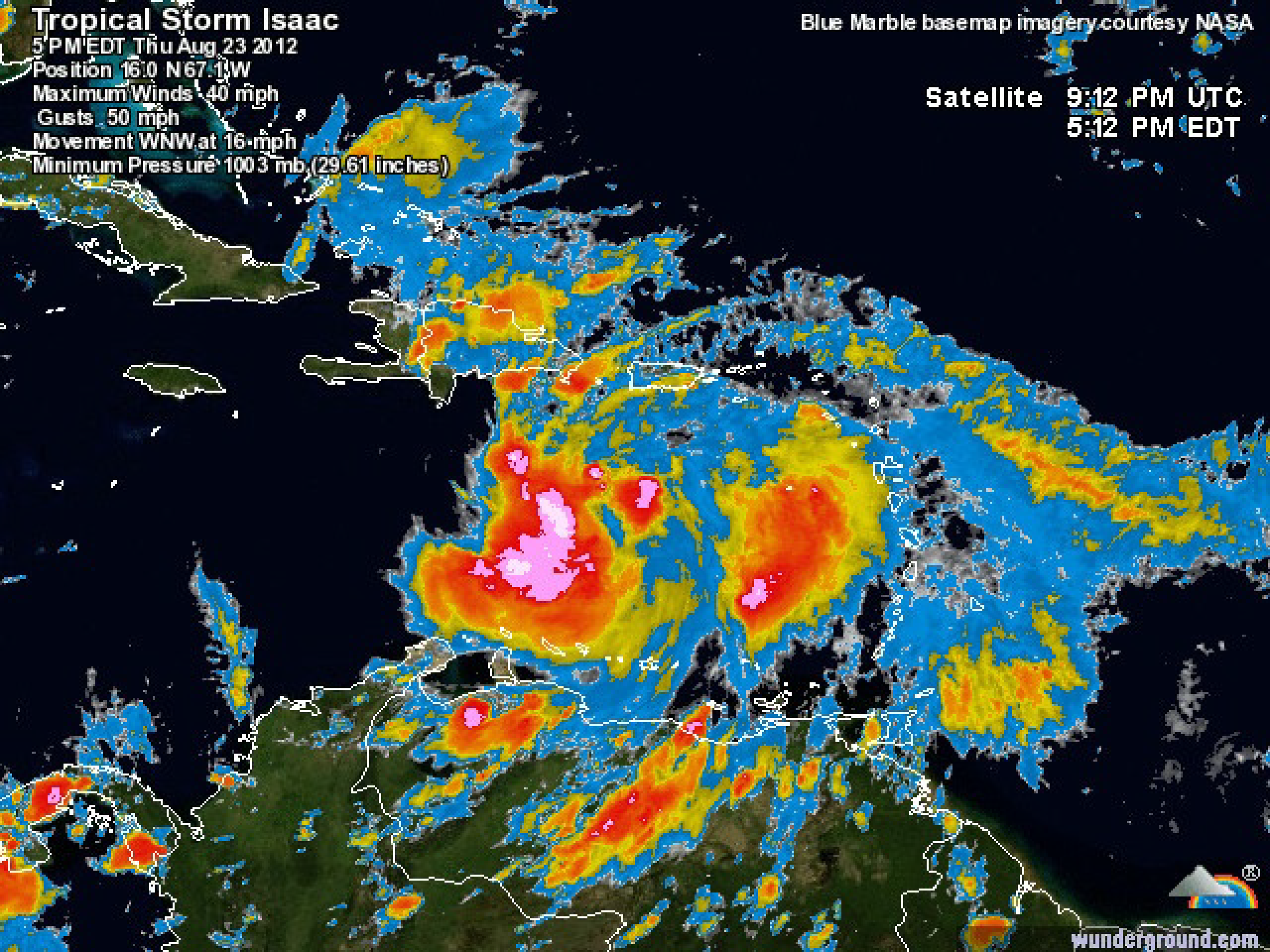
Gusts 50 mph

Movement WNW at 16 mph

Minimum Pressure 1003 mb (29.61 inches)

Blue Marble basemap imagery courtesy NASA

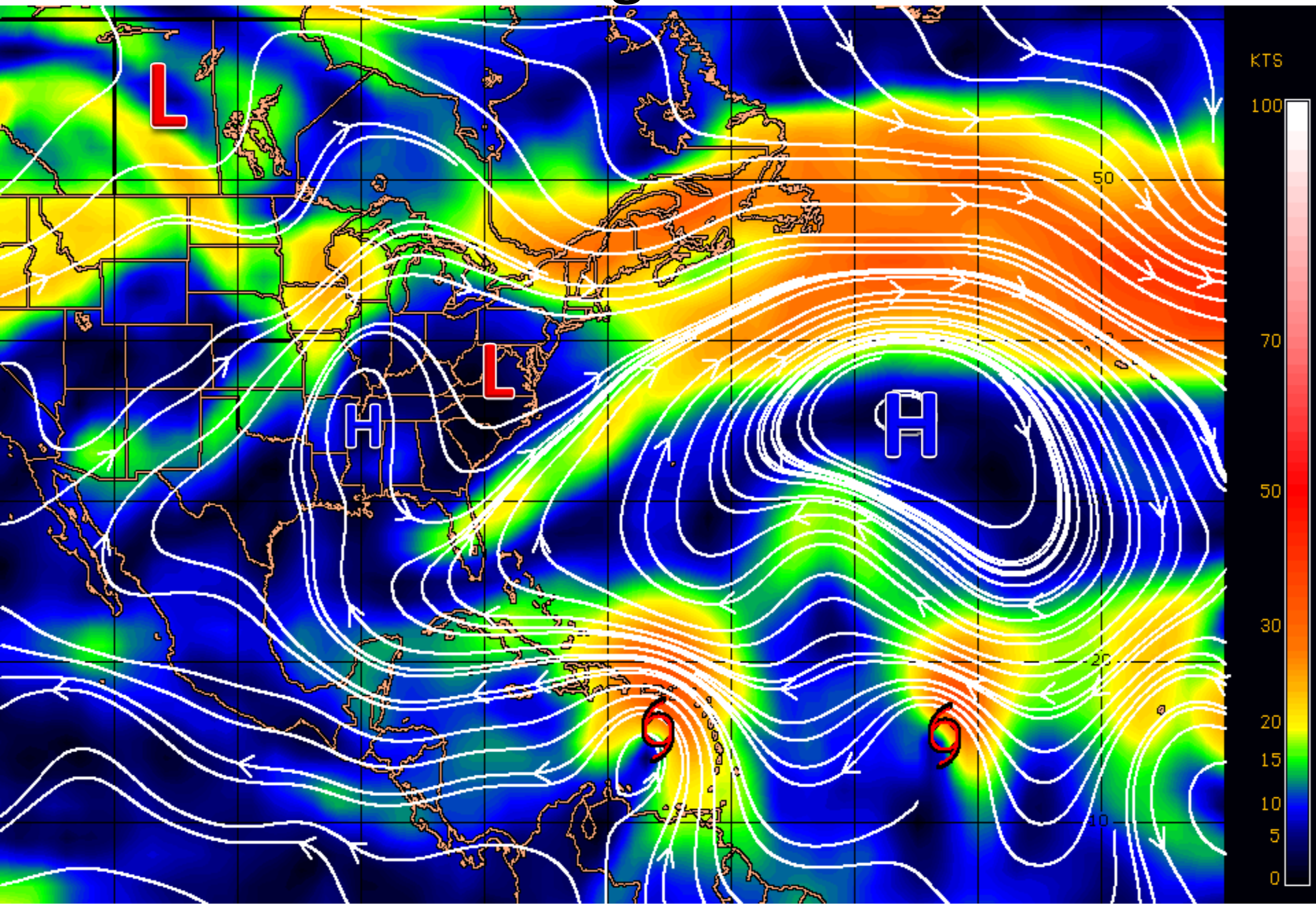
Satellite 9:12 PM UTC  
5:12 PM EDT



wunderground.com

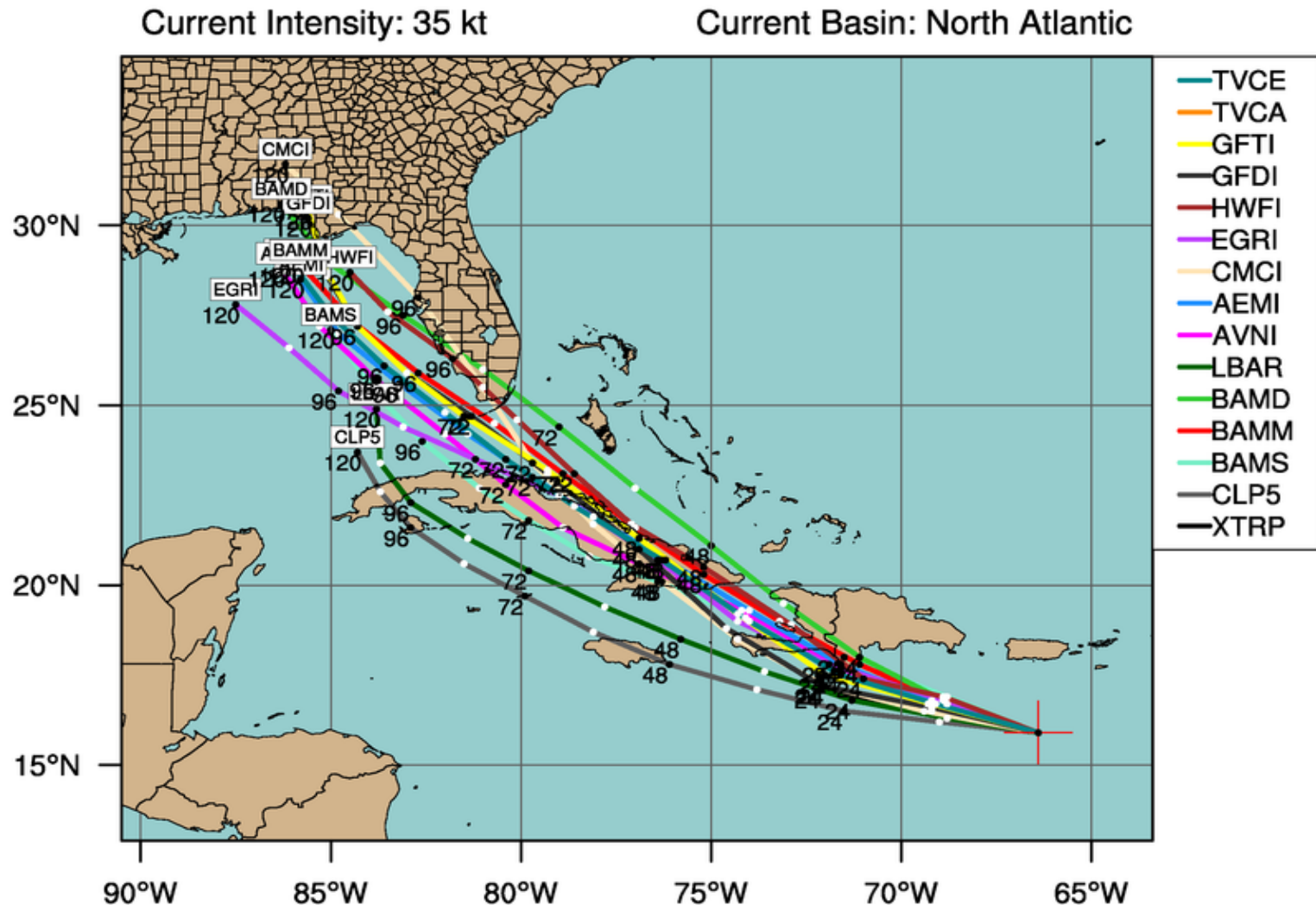


# Steering Currents



# TROPICAL STORM ISAAC (AL09)

Early-cycle track guidance initialized at 1800 UTC, 23 August 2012



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which can be accessed at: <http://www2.ucar.edu/terms-of-use>

Plot generated at 1852 UTC 23 August 2012

# Tropical Storm Isaac

2 PM EDT Thu Aug 23 2012

Models: Points 12 hours apart

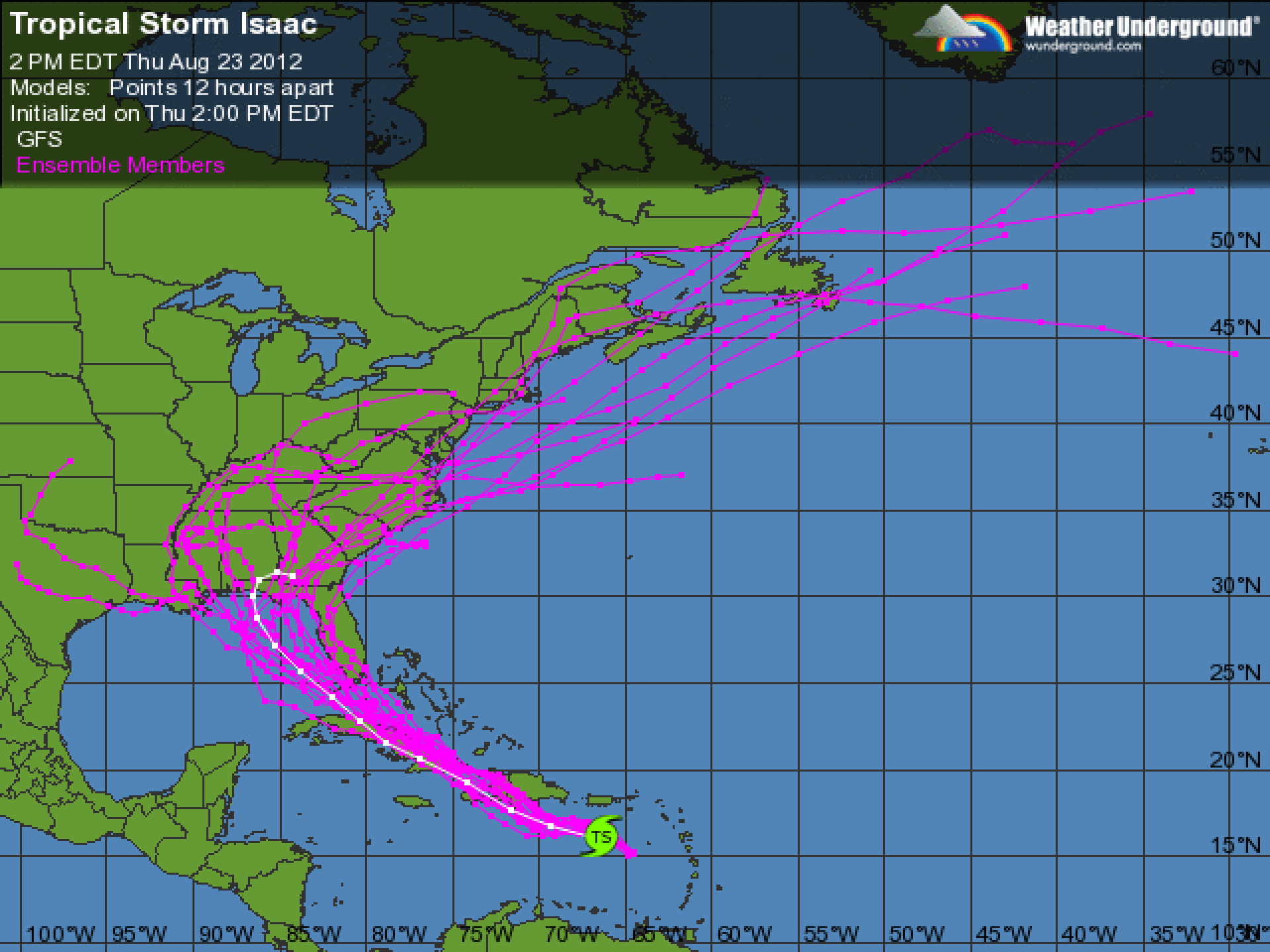
Initialized on Thu 2:00 PM EDT

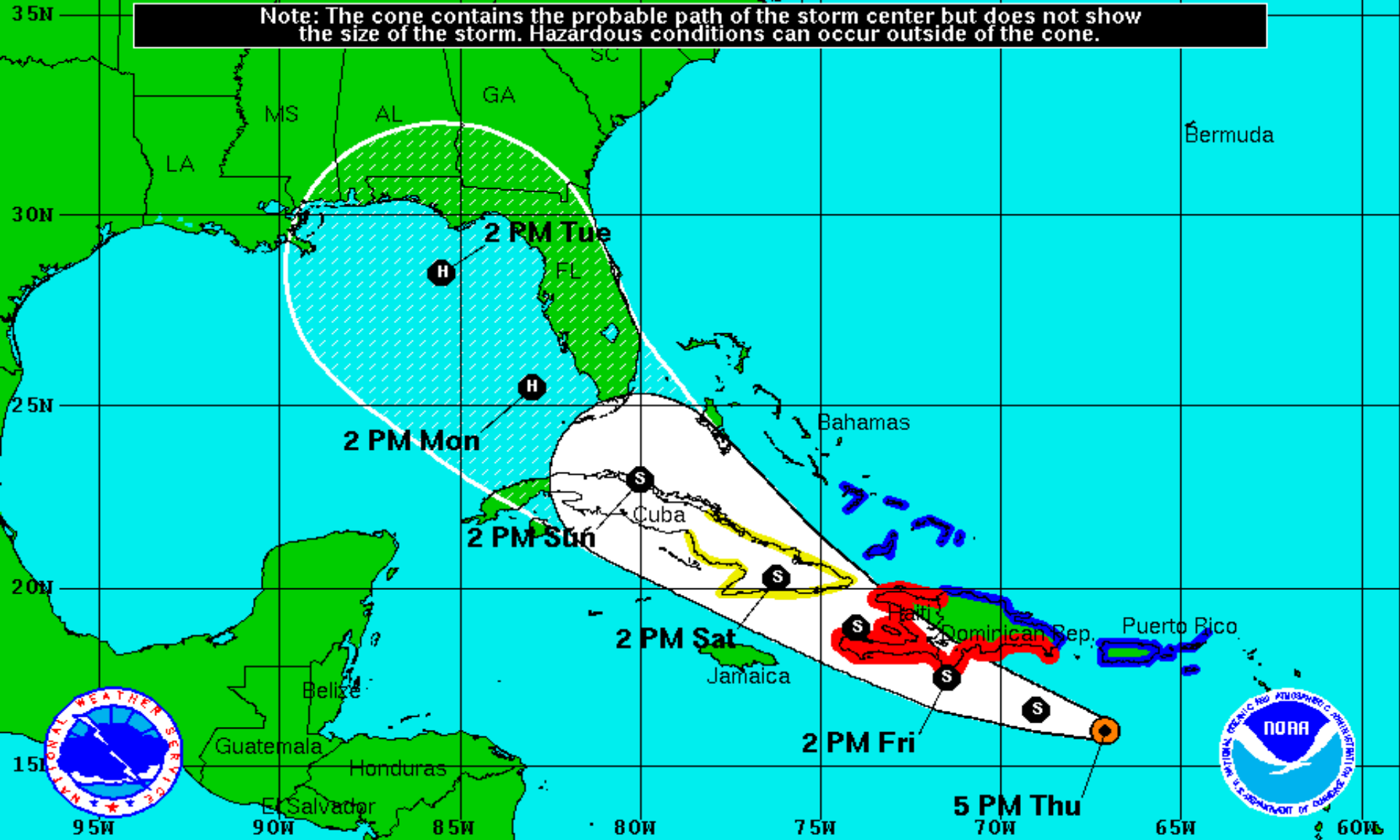
GFS

Ensemble Members






Weather Underground®  
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**Tropical Storm Isaac**  
 Thursday August 23, 2012  
 5 PM EDT Advisory 11  
 NWS National Hurricane Center

**Current Information:**   
 Center Location 16.0 N 67.1 W  
 Max Sustained Wind 40 mph  
 Movement WNW at 16 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

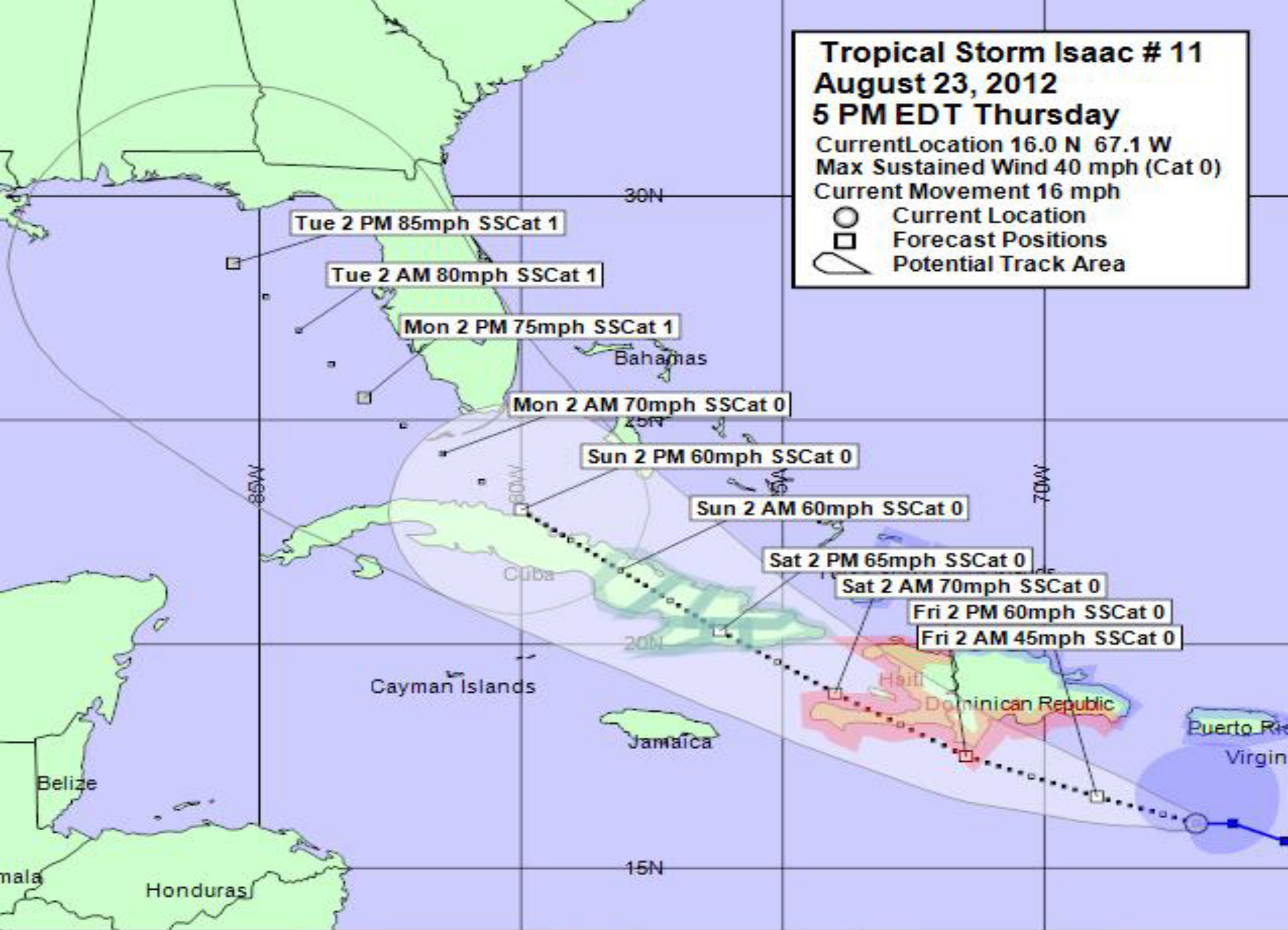
**Warnings:**  
 Hurricane  Trop.Storm



**Tropical Storm Isaac # 11**  
**August 23, 2012**  
**5 PM EDT Thursday**

Current Location 16.0 N 67.1 W  
Max Sustained Wind 40 mph (Cat 0)  
Current Movement 16 mph

○ Current Location  
□ Forecast Positions  
Potential Track Area



Hurricane Warning

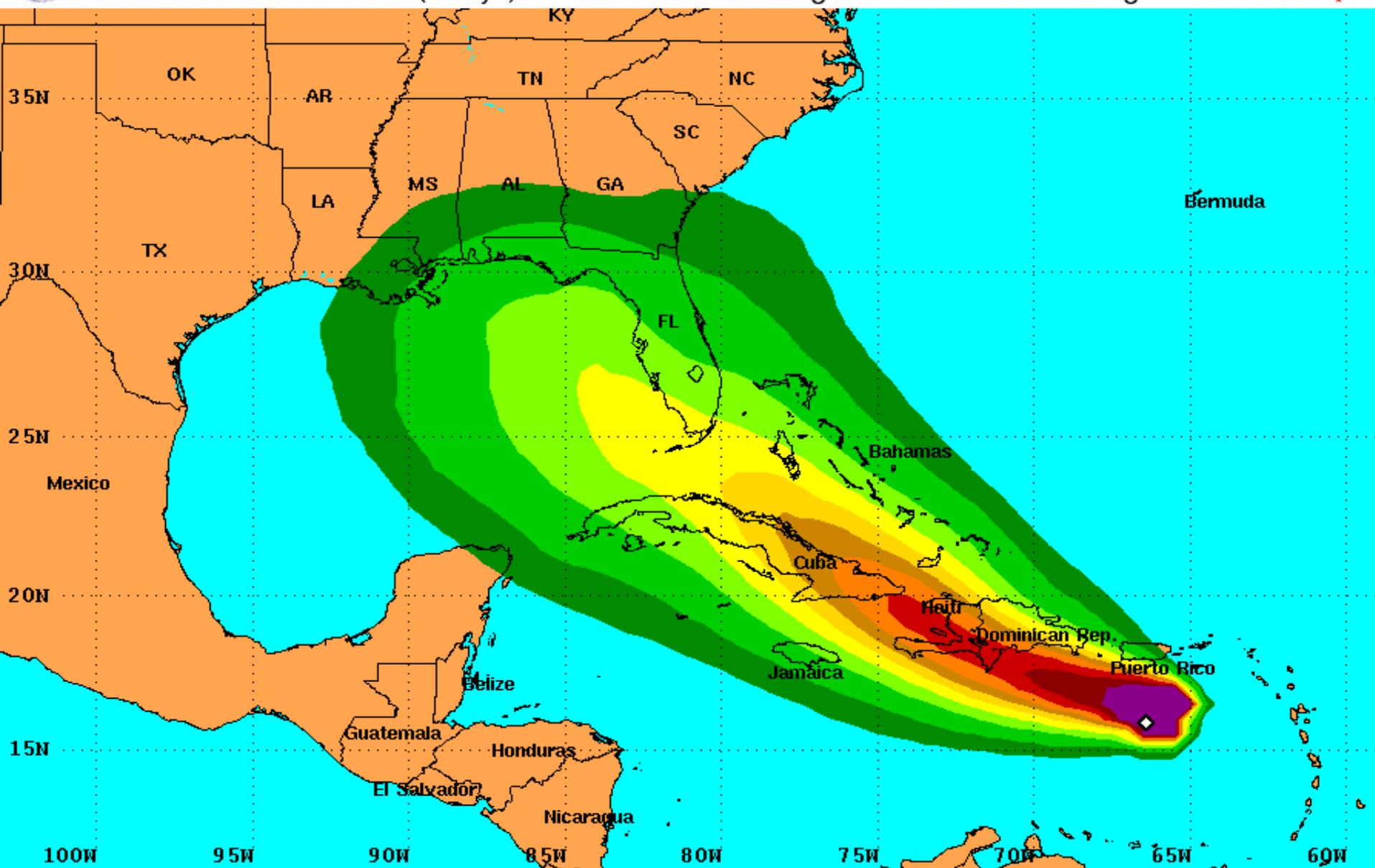
Hurricane Watch

Trop. Storm Warning

Trop. Storm Watch



# PRELIMINARY (SINGLE STORM) Tropical Storm Force Wind Speed Probabilities For the 120 hours (5 days) from 2 PM AST Thu Aug 23 to 2 PM AST Tue Aug 28



Probability of sustained tropical storm force surface winds (1-minute average of 39 mph or greater)

◇ indicates TROPICAL STORM ISAAC center location at 2 PM AST Thu Aug 23 2012 (Forecast/Advisory #11)





# Tropical Storm Isaac # 11

August 23, 2012

5 PM EDT Thursday

Current Location 16.0 N 67.1 W

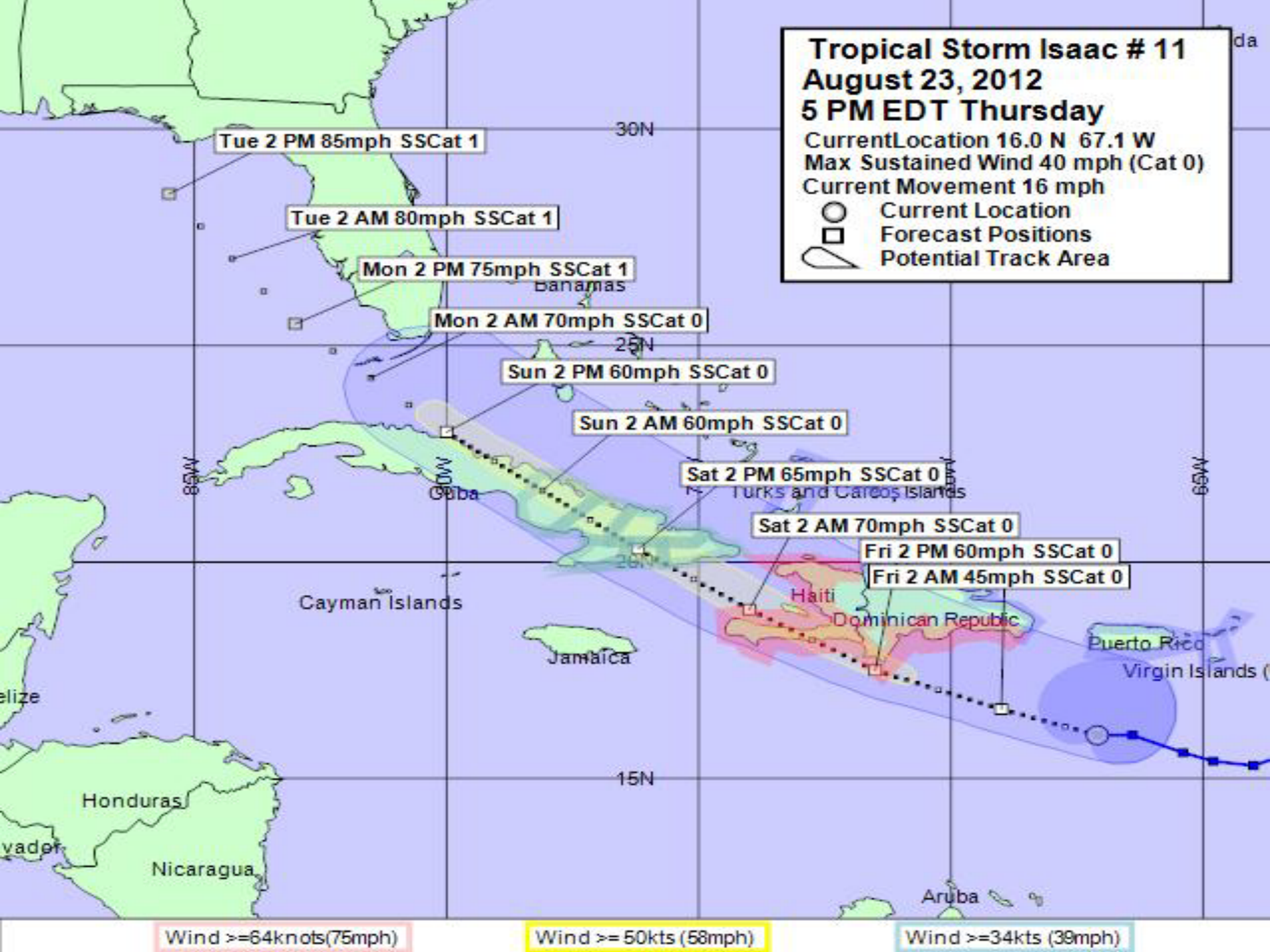
Max Sustained Wind 40 mph (Cat 0)

Current Movement 16 mph

○ Current Location

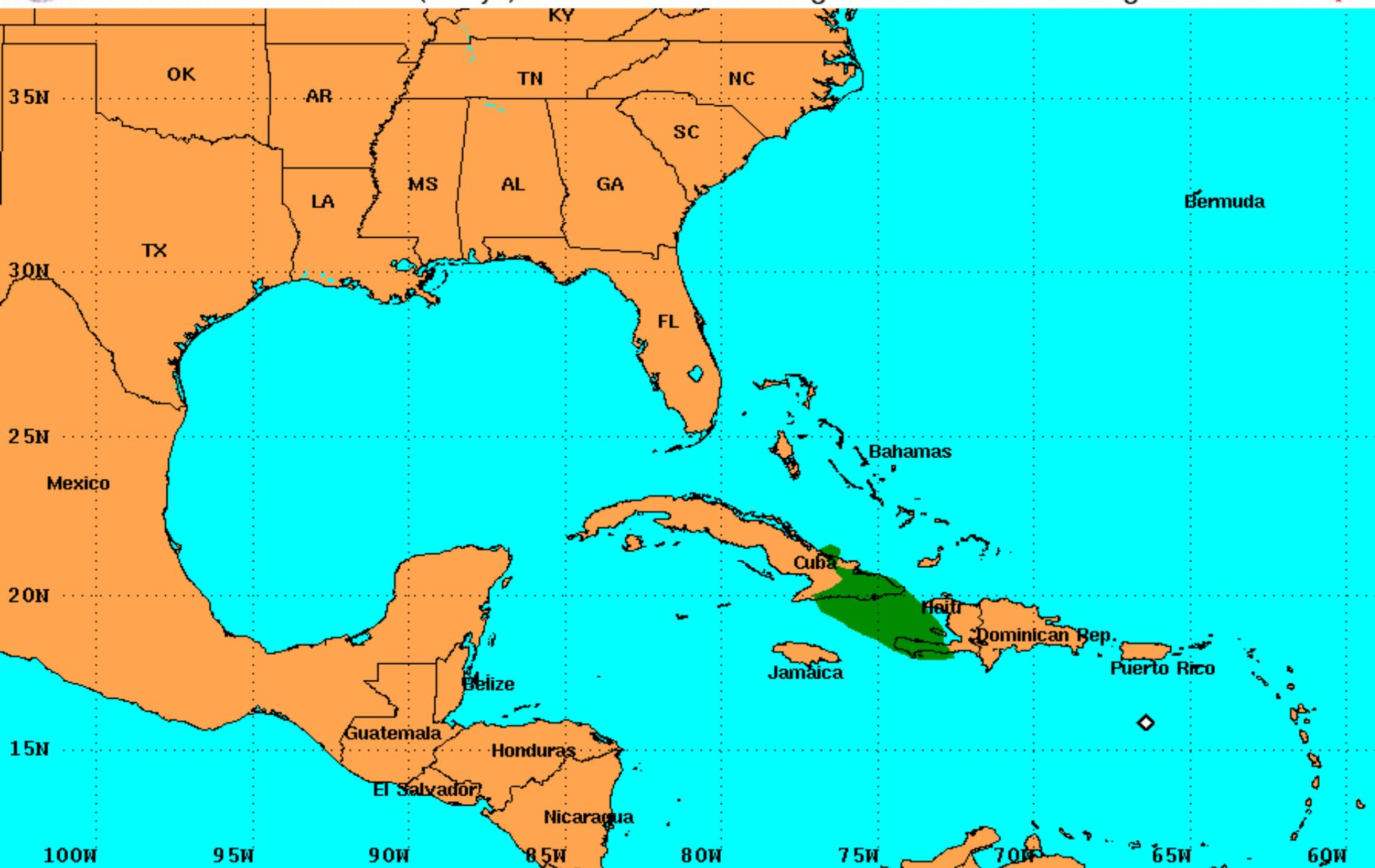
□ Forecast Positions

Potential Track Area





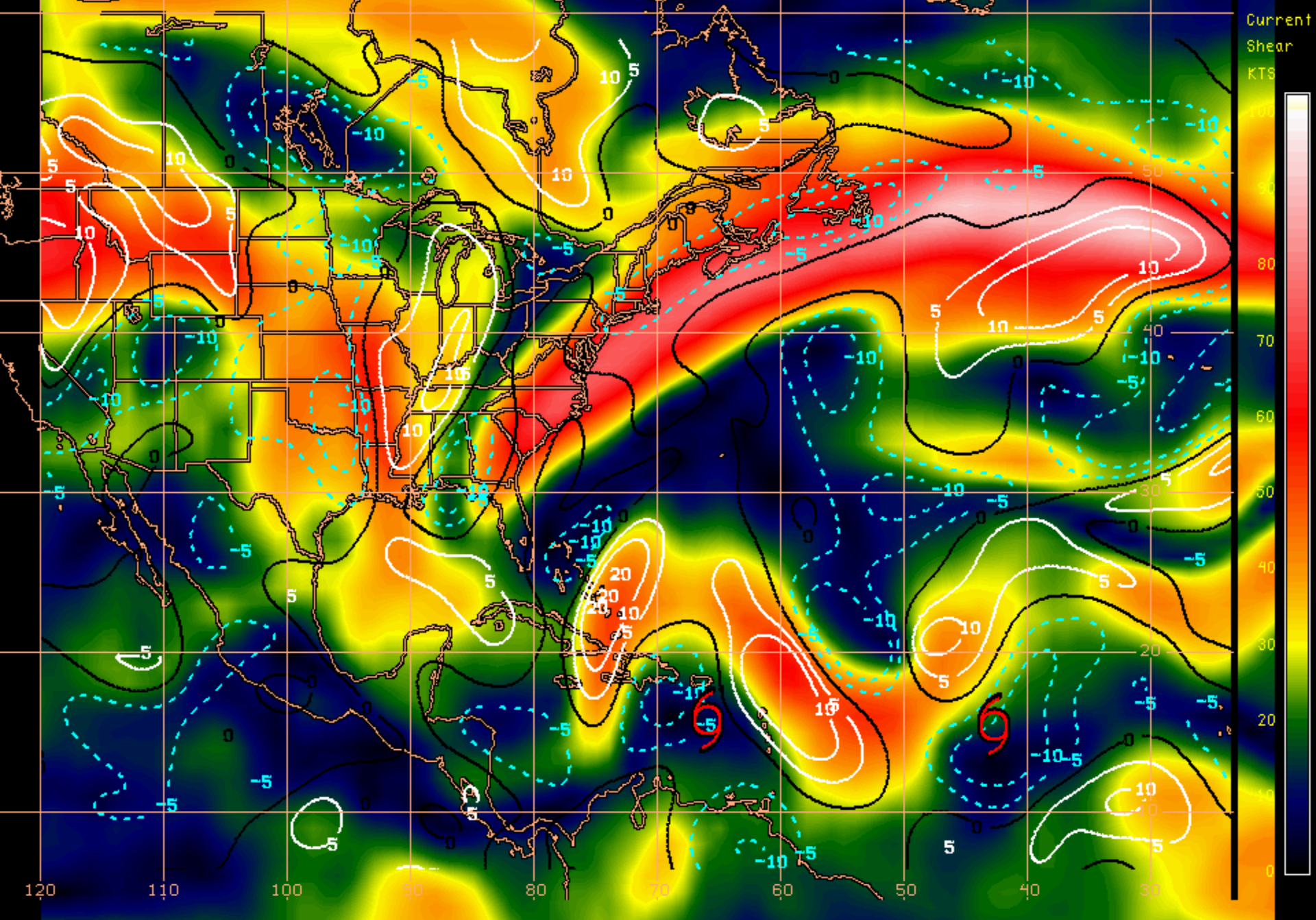
# PRELIMINARY (SINGLE STORM) Hurricane Force Wind Speed Probabilities For the 120 hours (5 days) from 2 PM AST Thu Aug 23 to 2 PM AST Tue Aug 28



Probability of sustained hurricane force surface winds (1-minute average of 74 mph or greater)

◇ indicates TROPICAL STORM ISAAC center location at 2 PM AST Thu Aug 23 2012 (Forecast/Advisory #11)





Current  
Shear  
KTS

80

70

60

50

40

30

20

10

0

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

1

GOES-EAST 24 HOUR WIND SHEAR TENDENCY PRODUCT

1800 UTC

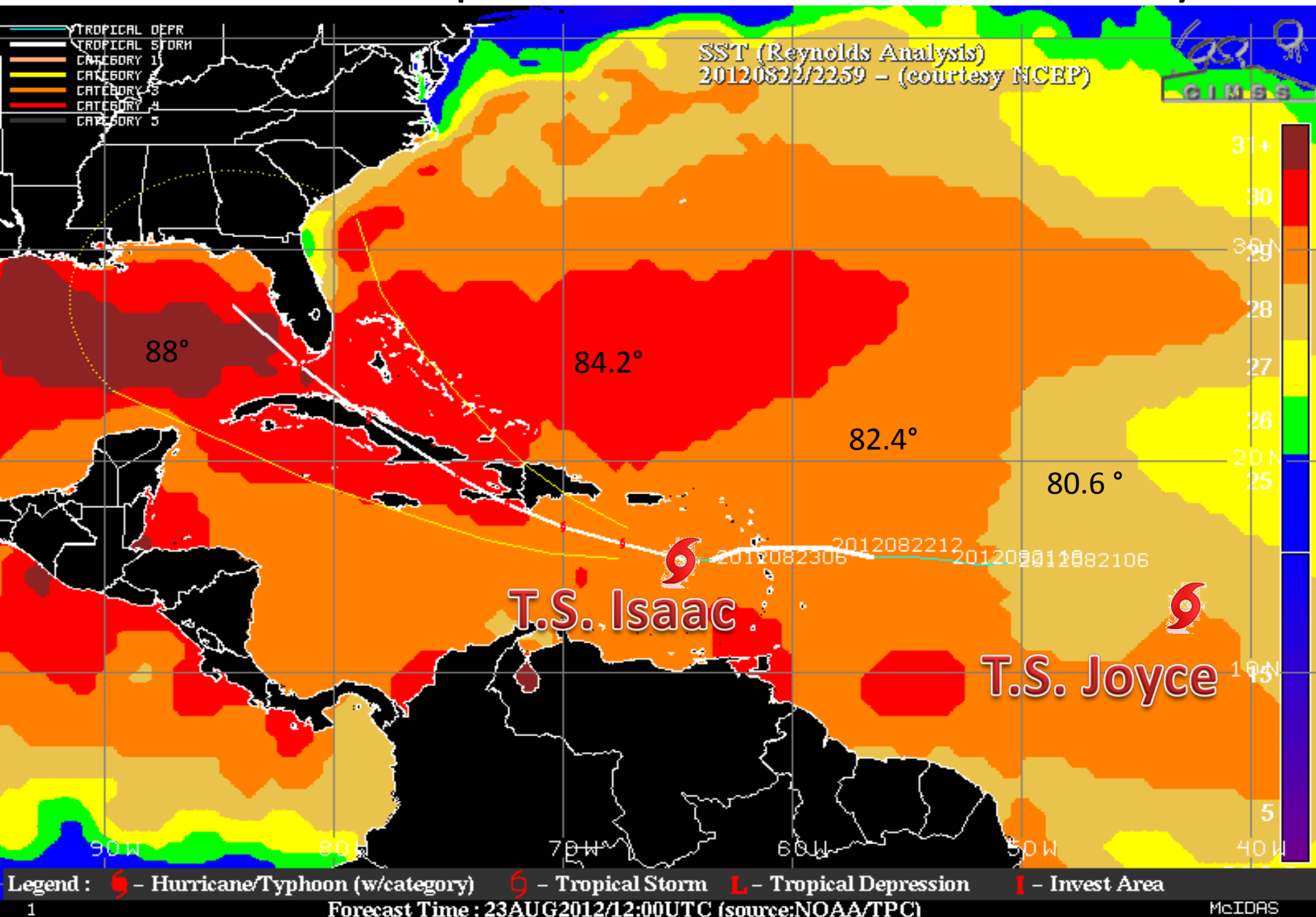
23AUG12

UW-CIMSS

McIDAS



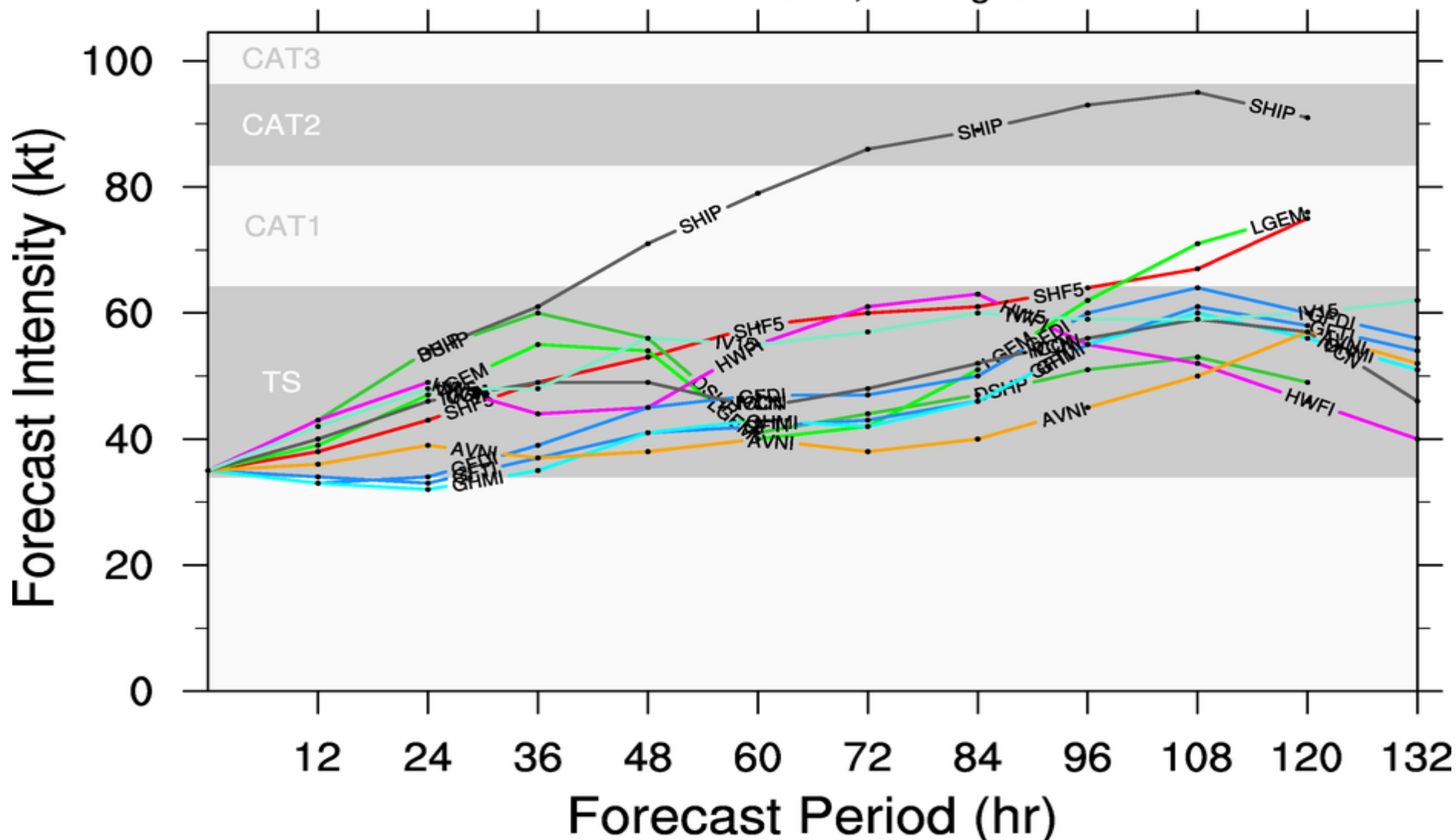
# Sea Surface Temperatures Around Isaac and Joyce



# TROPICAL STORM ISAAC (AL09)

## Early-cycle intensity guidance

initialized at 1800 UTC, 23 August 2012



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Plot generated at 1852 UTC 23 August 2012



Intensity (Maximum Wind Speed) Probability Table  
Tropical Storm Isaac Advisory Number 11  
5:00 PM AST Aug 23 2012



Wind Range (mph)	Forecast Time						
	12 hour for 2 AM Fri	24 hour for 2 PM Fri	36 hour for 2 AM Sat	48 hour for 2 PM Sat	72 hour for 2 PM Sun	96 hour for 2 PM Mon	120 hour for 2 PM Tue
Dissipated	1%	2%	3%	4%	13%	14%	21%
Tropical Depression (<39)	17%	15%	11%	9%	23%	12%	15%
Tropical Storm (39-73)	80%	72%	59%	59%	52%	45%	33%
Hurricane (all categories)	2%	10%	27%	28%	12%	29%	32%
-- Category 1 (74-95)	2%	9%	23%	22%	11%	23%	21%
-- Category 2 (96-110)	<1%	1%	3%	4%	1%	4%	8%
-- Category 3 (111-130)	<1%	<1%	1%	2%	<1%	2%	2%
-- Category 4 (131-155)	<1%	<1%	<1%	<1%	<1%	<1%	1%
-- Category 5 (>155)	<1%	<1%	<1%	<1%	<1%	<1%	<1%
Forecast Maximum Wind	45 mph	60 mph	70 mph	65 mph	60 mph	75 mph	85 mph

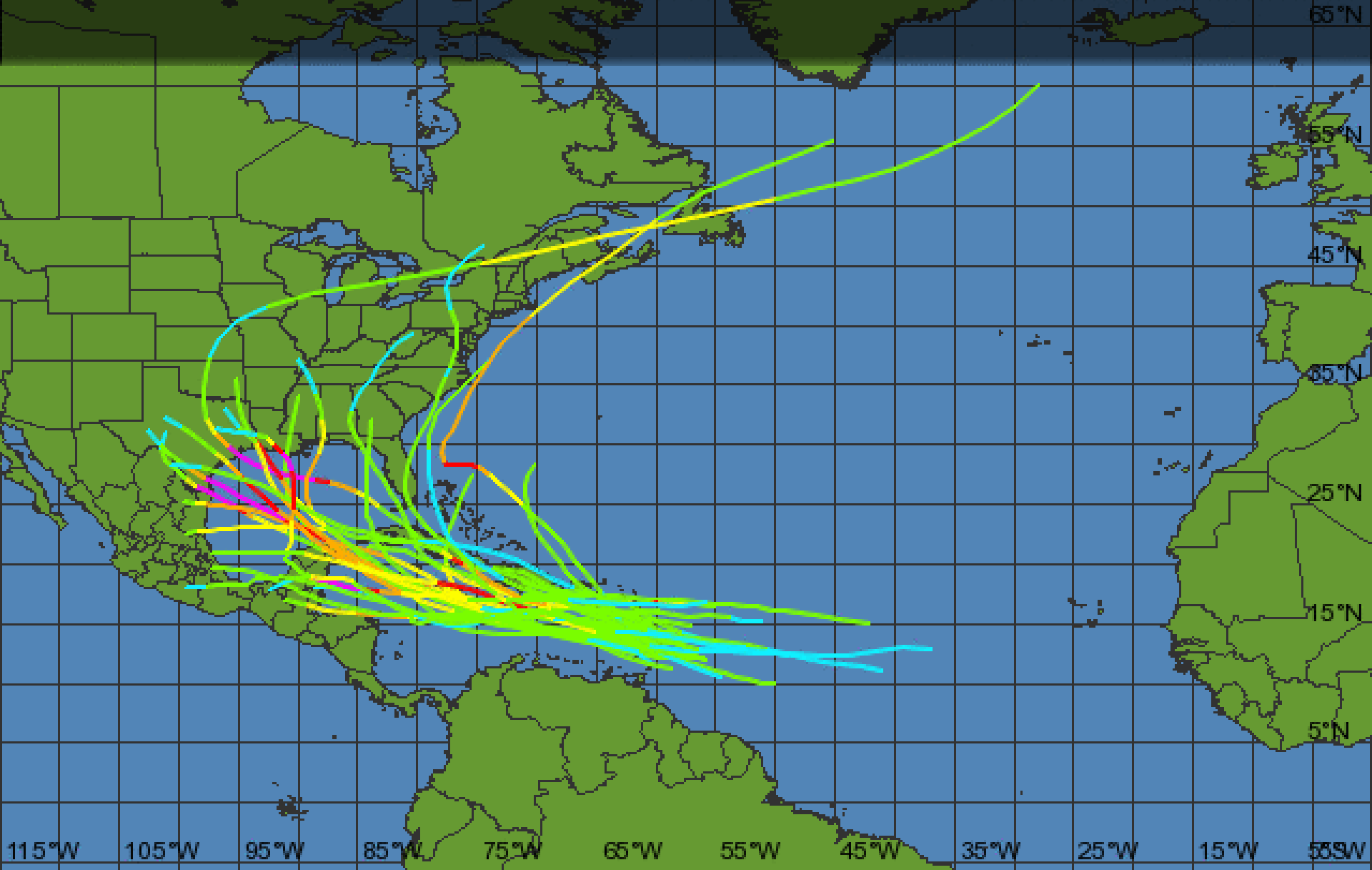
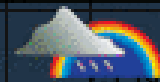


# Tropical Storm Isaac

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



# Tropical Storm Joyce

5 PM EDT Thu Aug 23 2012

Position 15.9 N 42.5 W

Maximum Winds 40 mph

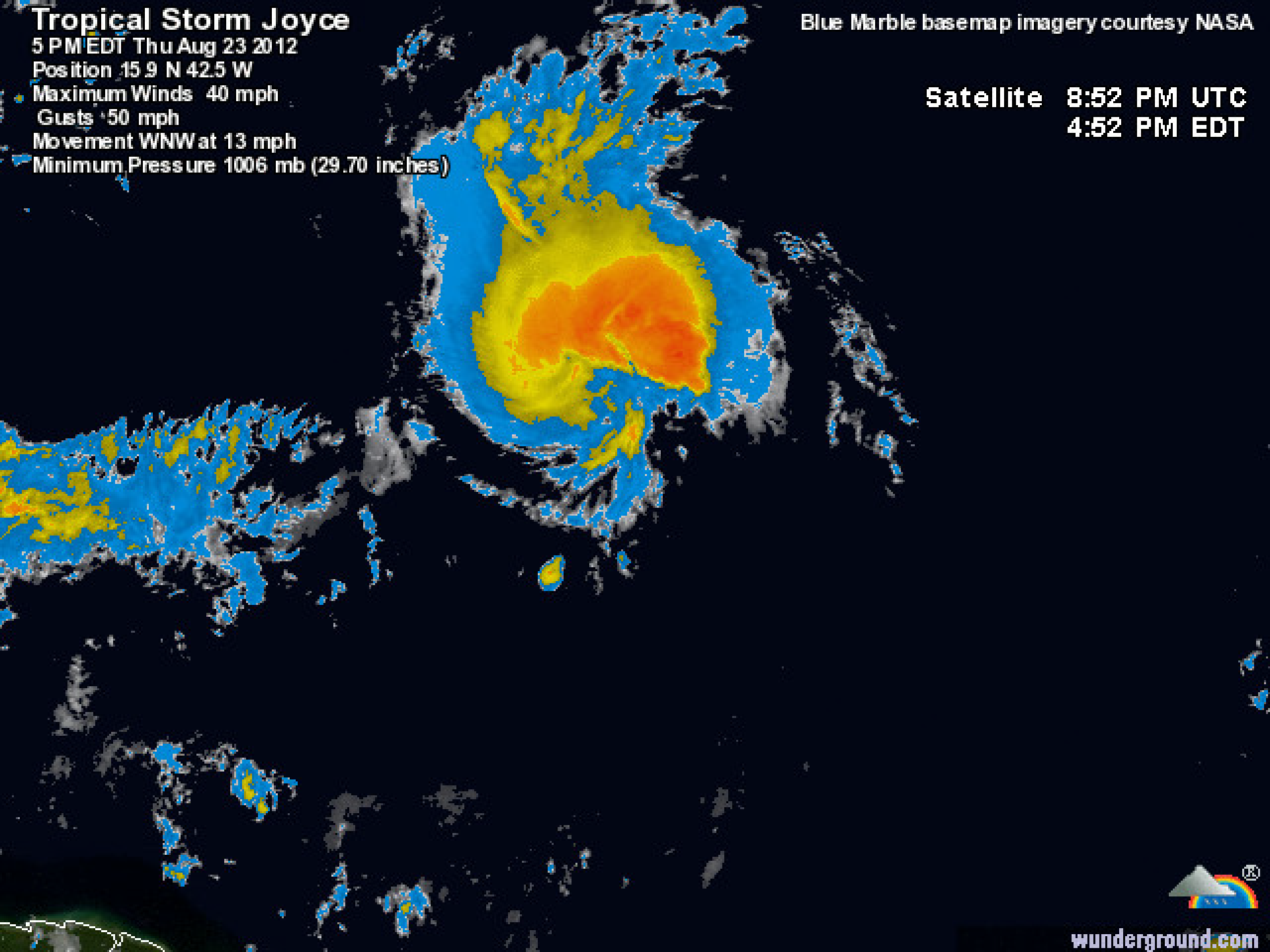
Gusts 50 mph

Movement WNW at 13 mph

Minimum Pressure 1006 mb (29.70 inches)

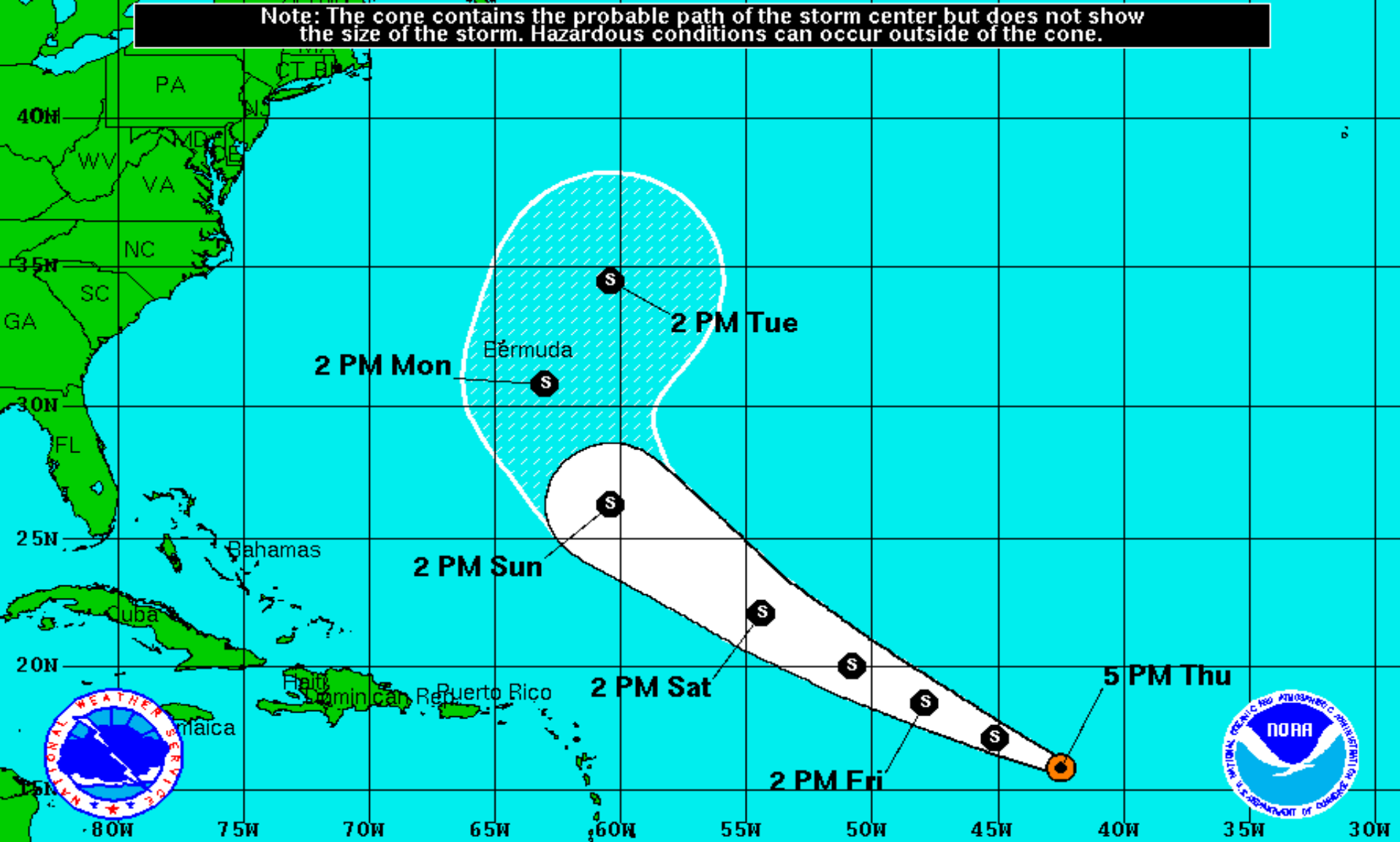
Blue Marble basemap imagery courtesy NASA

Satellite 8:52 PM UTC  
4:52 PM EDT






wunderground.com

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 Joyce**  
 Thursday August 23, 2012  
 5 PM EDT Advisory 6  
 NWS National Hurricane Center

**Current Information:**   
 Center Location 15.9 N 42.5 W  
 Max Sustained Wind 40 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 Joyce # 6

August 23, 2012

5 PM EDT Thursday

Current Location 15.9 N 42.5 W

Max Sustained Wind 40 mph (Cat 0)

Current Movement 14 mph

○ Current Location

□ Forecast Positions

△ Potential Track Area

Tue 2 PM 65mph SSCat 0

Tue 2 AM 60mph SSCat 0

Mon 2 PM 60mph SSCat 0

Mon 2 AM 60mph SSCat 0

Sun 2 PM 50mph SSCat 0

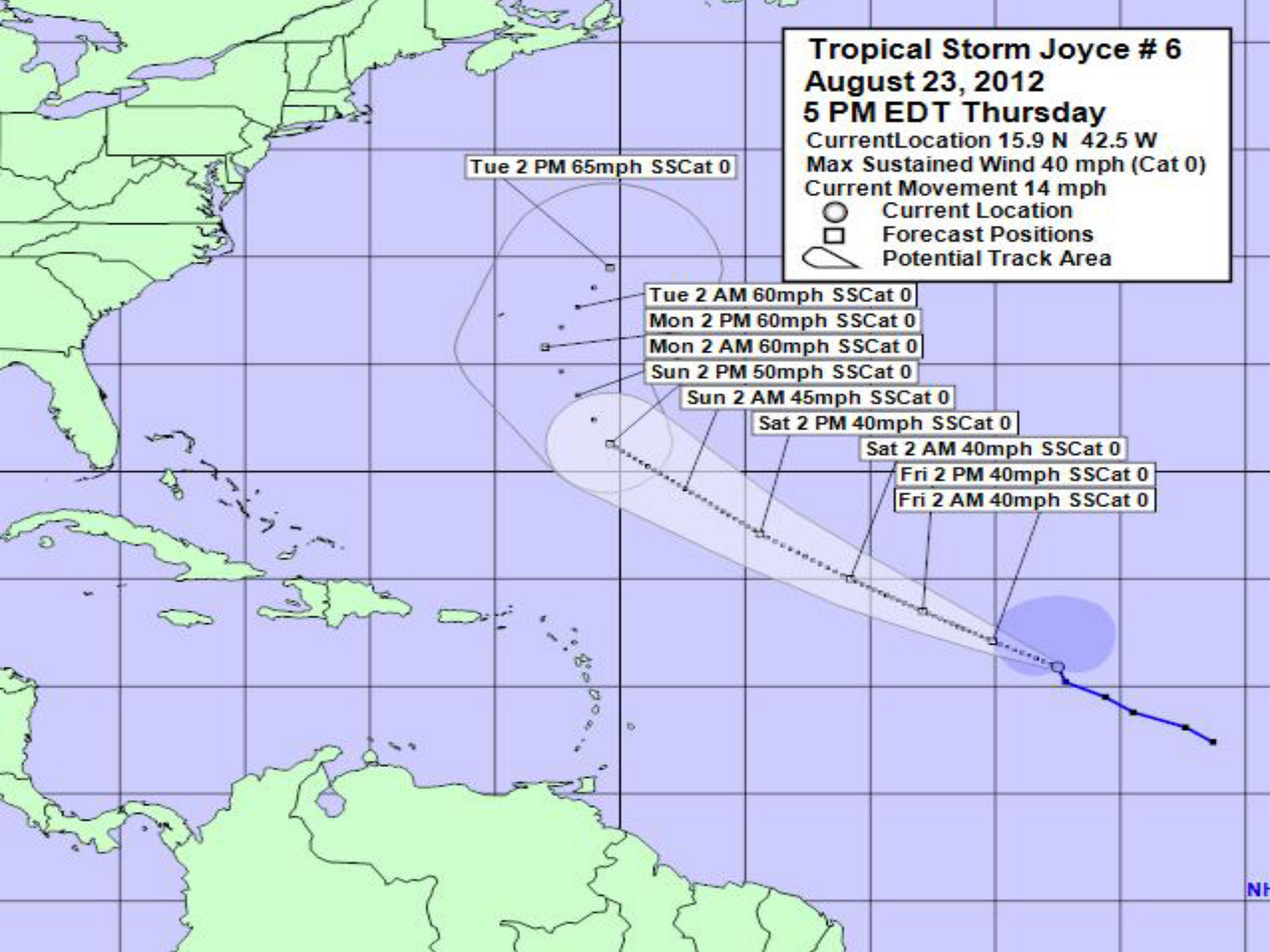
Sun 2 AM 45mph SSCat 0

Sat 2 PM 40mph SSCat 0

Sat 2 AM 40mph SSCat 0

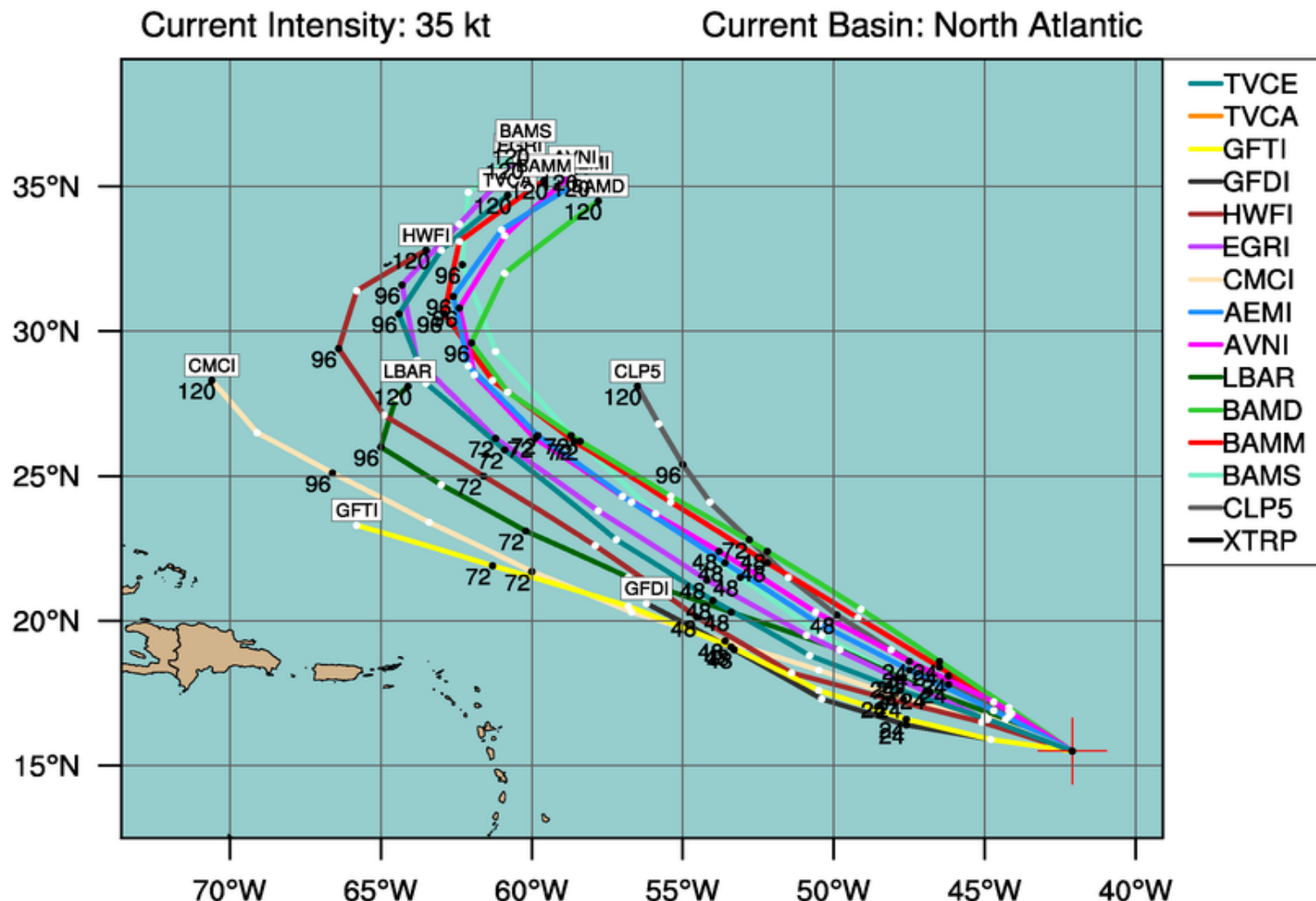
Fri 2 PM 40mph SSCat 0

Fri 2 AM 40mph SSCat 0



# TROPICAL STORM JOYCE (AL10)

Early-cycle track guidance initialized at 1800 UTC, 23 August 2012



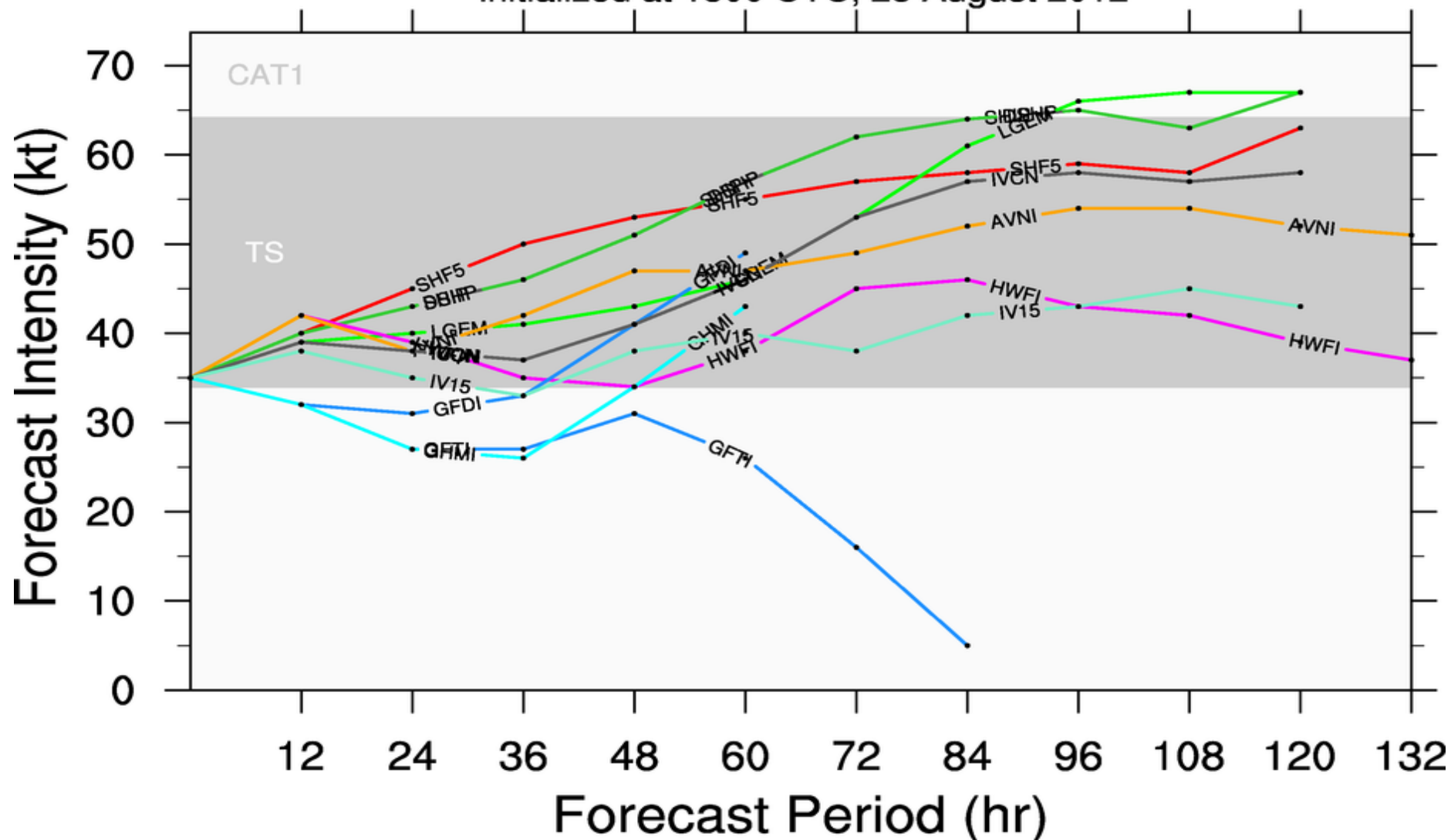
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Plot generated at 1852 UTC 23 August 2012

# TROPICAL STORM JOYCE (AL10)

## Early-cycle intensity guidance

initialized at 1800 UTC, 23 August 2012



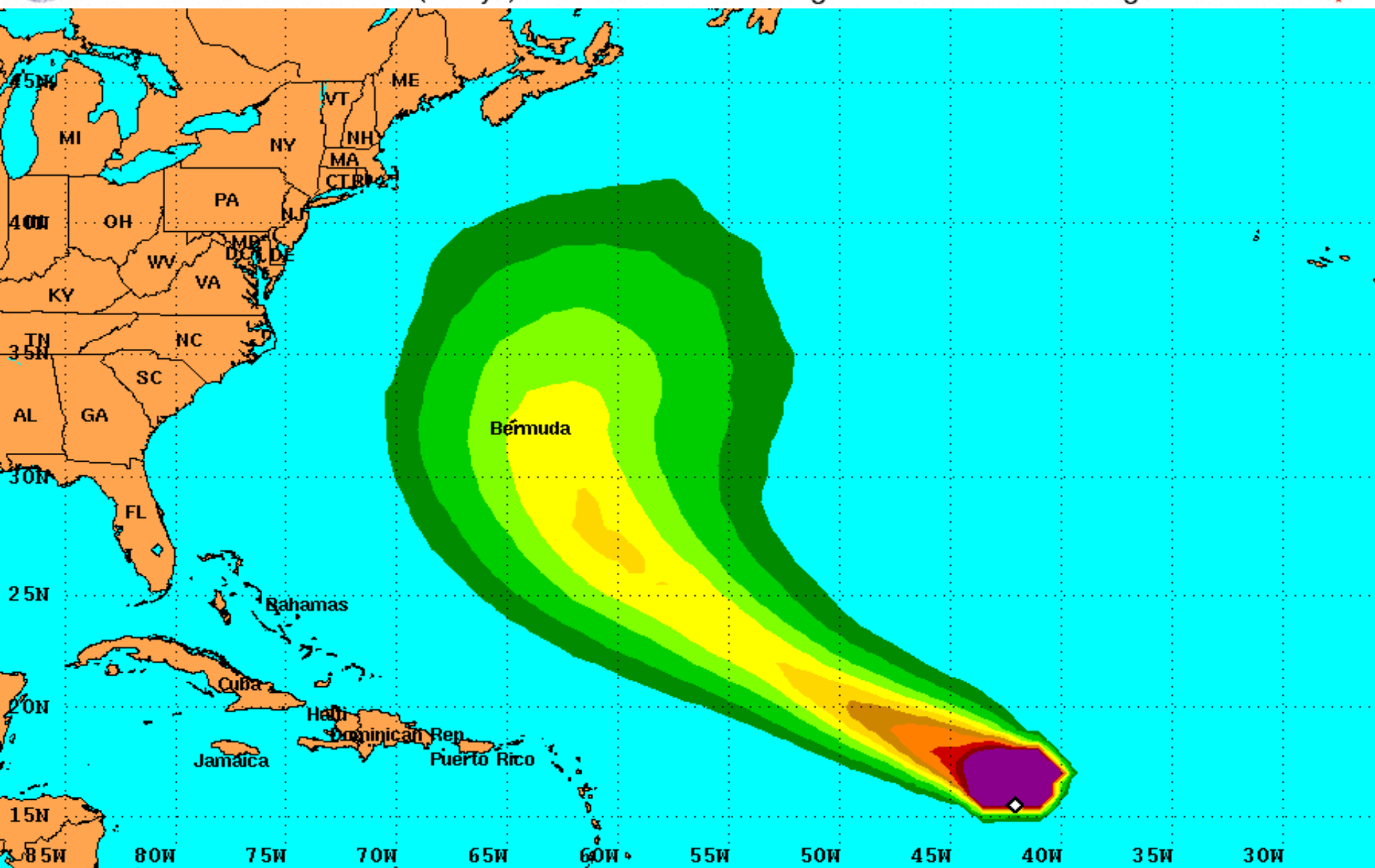
By using this plot, the user agrees to the UCAR Terms of Use  
which can be accessed at: <http://www2.ucar.edu/terms-of-use>

Plot generated at 1852 UTC 23 August 2012





PRELIMINARY (SINGLE STORM) Tropical Storm Force Wind Speed Probabilities  
For the 120 hours (5 days) from 2 PM AST Thu Aug 23 to 2 PM AST Tue Aug 28



Probability of sustained tropical storm force surface winds (1-minute average of 39 mph or greater)

◇ indicates TROPICAL STORM JOYCE center location at 2 PM AST Thu Aug 23 2012 (Forecast/Advisory #6)





Intensity (Maximum Wind Speed) Probability Table  
Tropical Storm Joyce Advisory Number 6  
5:00 PM AST Aug 23 2012

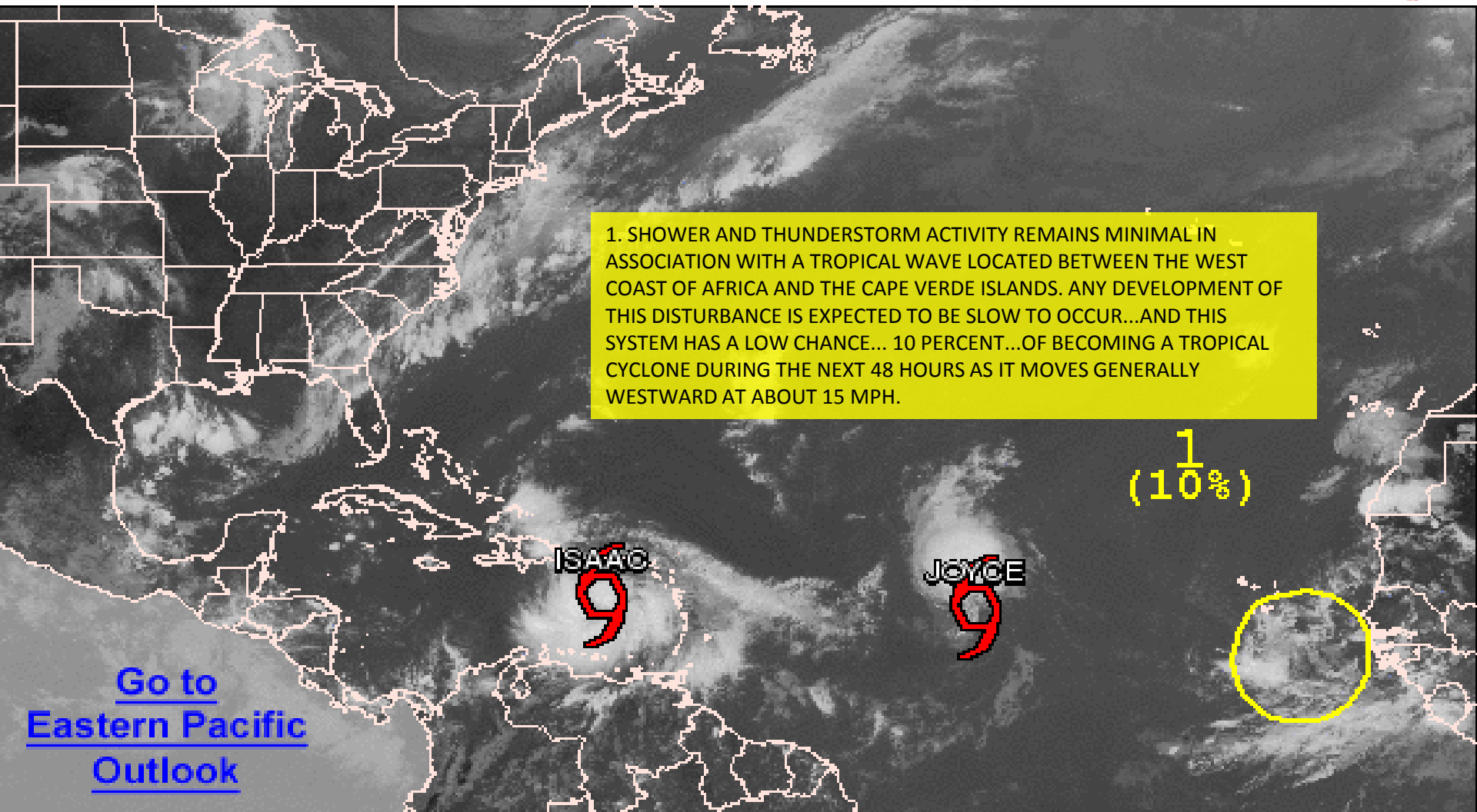


Wind Range (mph)	Forecast Time						
	12 hour for 2 AM Fri	24 hour for 2 PM Fri	36 hour for 2 AM Sat	48 hour for 2 PM Sat	72 hour for 2 PM Sun	96 hour for 2 PM Mon	120 hour for 2 PM Tue
Dissipated	2%	4%	8%	11%	5%	4%	4%
Tropical Depression (<39)	33%	38%	36%	33%	20%	16%	14%
Tropical Storm (39-73)	64%	55%	52%	50%	58%	57%	55%
Hurricane (all categories)	1%	3%	4%	6%	17%	23%	28%
-- Category 1 (74-95)	1%	3%	4%	6%	15%	19%	23%
-- Category 2 (96-110)	<1%	<1%	1%	1%	2%	3%	4%
-- Category 3 (111-130)	<1%	<1%	<1%	<1%	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	40 mph	40 mph	40 mph	40 mph	50 mph	60 mph	65 mph



# Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



200 PM EDT THU AUG 23 2012

Satellite Image: 0115 PM 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%

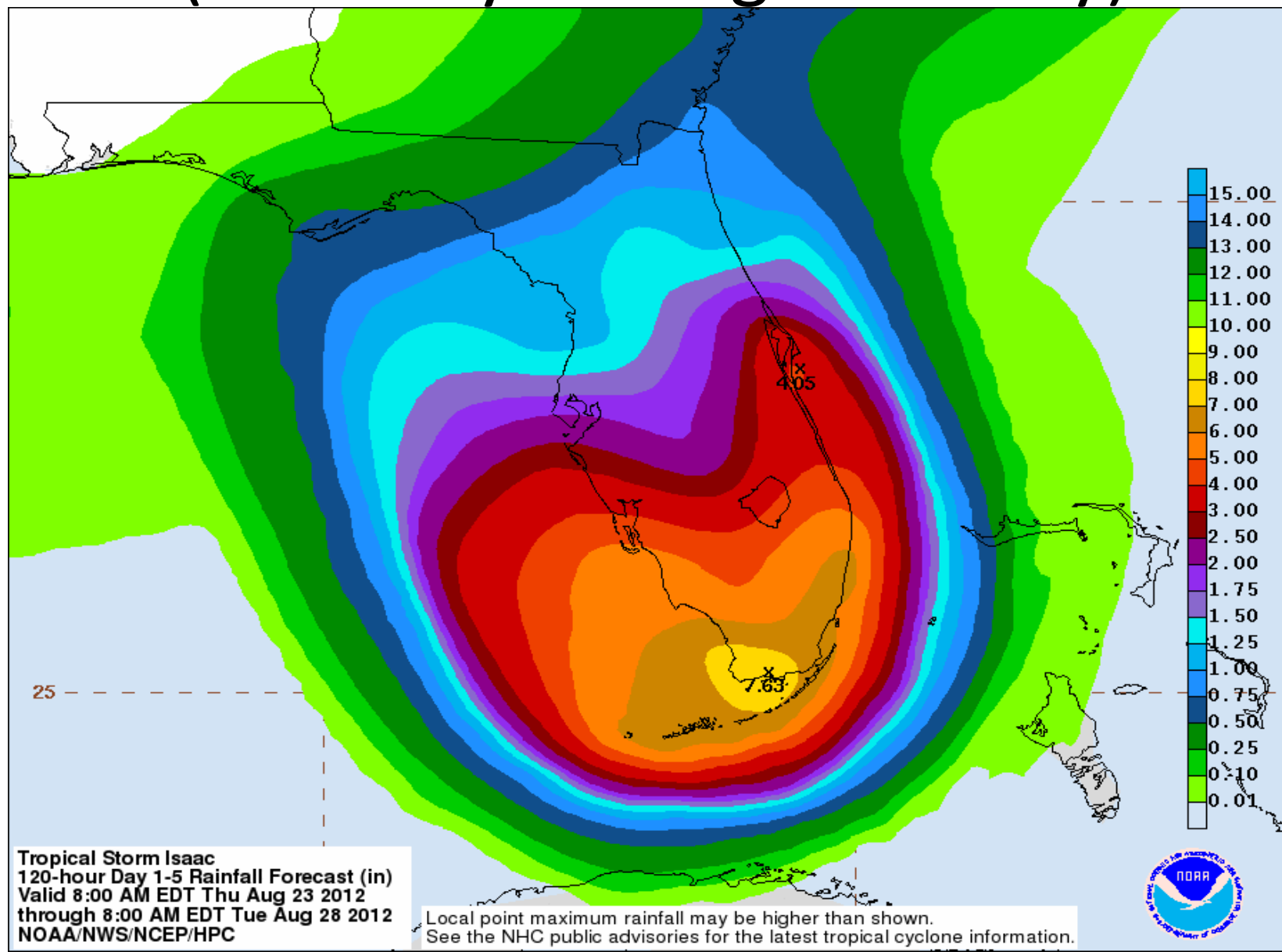


Medium 30-50%

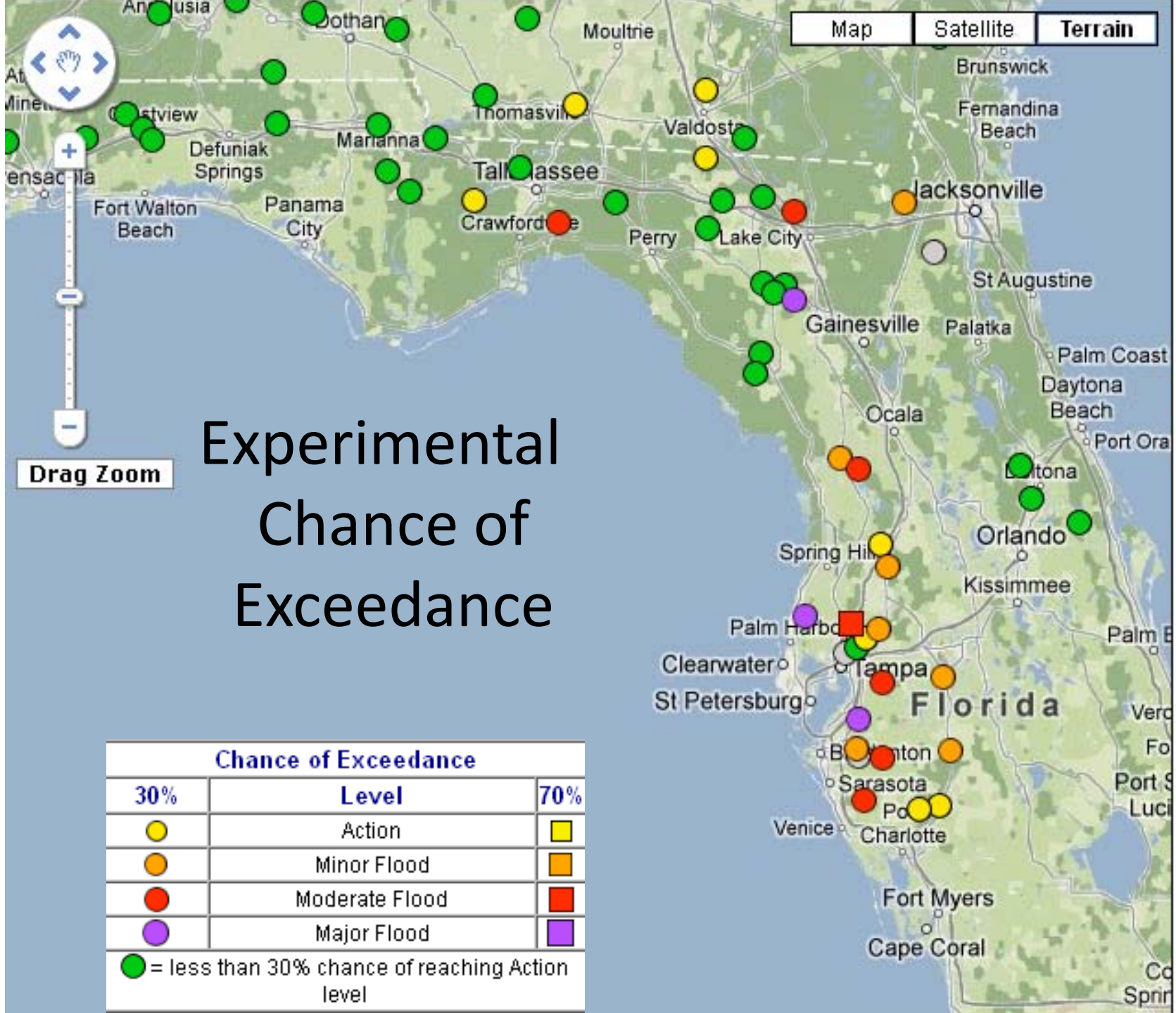


High >50%










# Forecast Rainfall Accumulations (Thursday Through Tuesday)







# Experimental Chance of Exceedance

Chance of Exceedance		
30%	Level	70%
	Action	
	Minor Flood	
	Moderate Flood	
	Major Flood	
 = less than 30% chance of reaching Action level		