



TROPICAL UPDATE

1 PM EDT

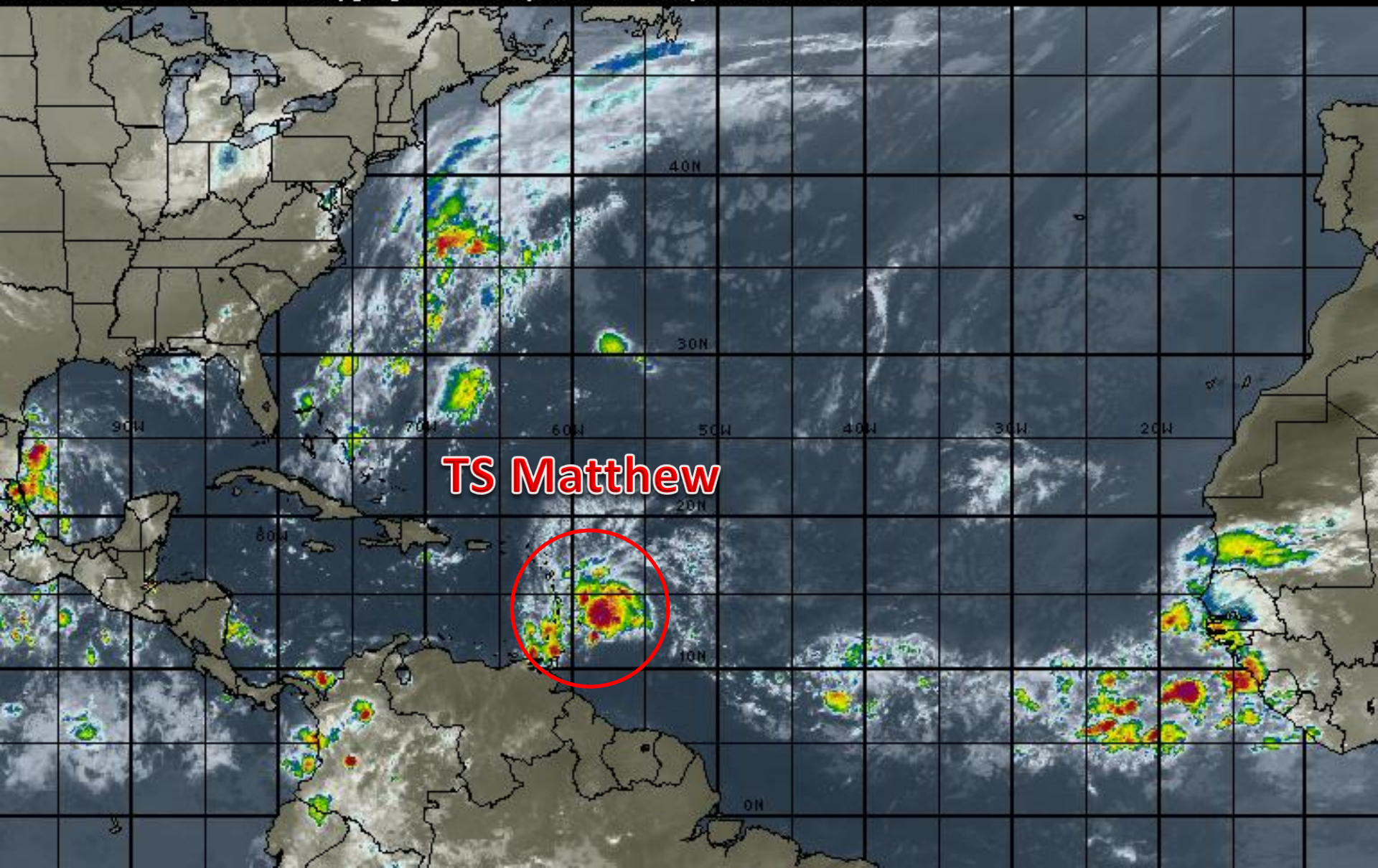
Wednesday, September 28, 2016

Tropical Storm Matthew

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

12:00 28-SEP-2016 GMT ©Copyright WSI Corporation <http://www.wsi.com>





Two-Day Graphical Tropical Weather Outlook

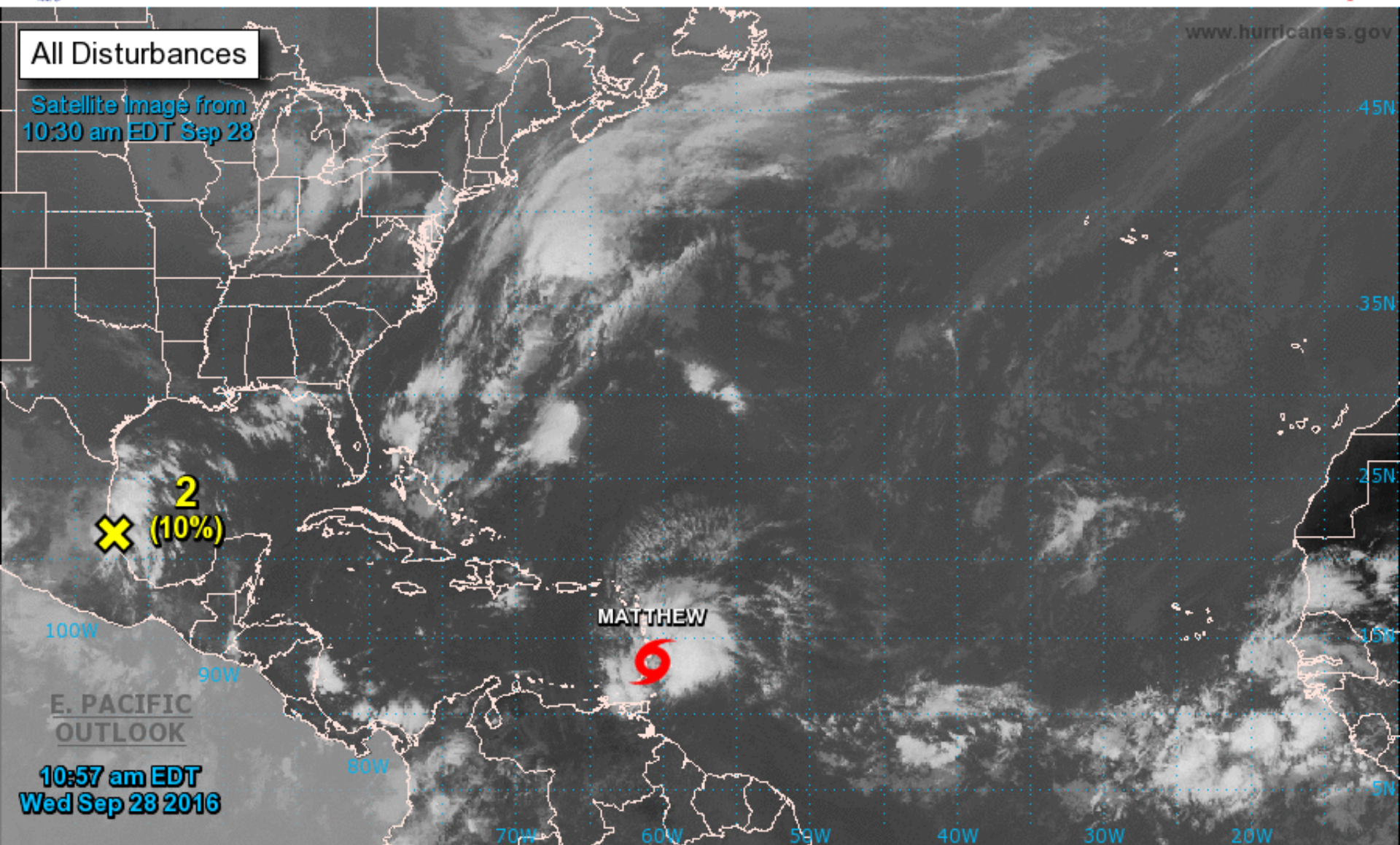
National Hurricane Center Miami, Florida



www.hurricanes.gov

All Disturbances

Satellite Image from
10:30 am EDT Sep 28



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

Tropical or Sub-Tropical Cyclone: Depression Storm Hurricane

Post-Tropical Cyclone Remnants

Tropical Storm Matthew

11 AM EDT Wed Sep 28 2016

Position 13.4 N 60.7 W

Maximum Winds 60 mph

Gusts 70 mph

Movement W at 20 mph

Minimum Pressure 1008 mb (29.76 inches)

Blue Marble basemap imagery courtesy NASA

Satellite 3:17 PM UTC

11:17 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.



Tropical Storm Matthew
 Wednesday September 28, 2016
 11 AM EDT Advisory 1
 NWS National Hurricane Center

Current Information: 
 Center Location 13.4 N 60.7 W
 Max Sustained Wind 60 mph
 Movement W at 21 mph

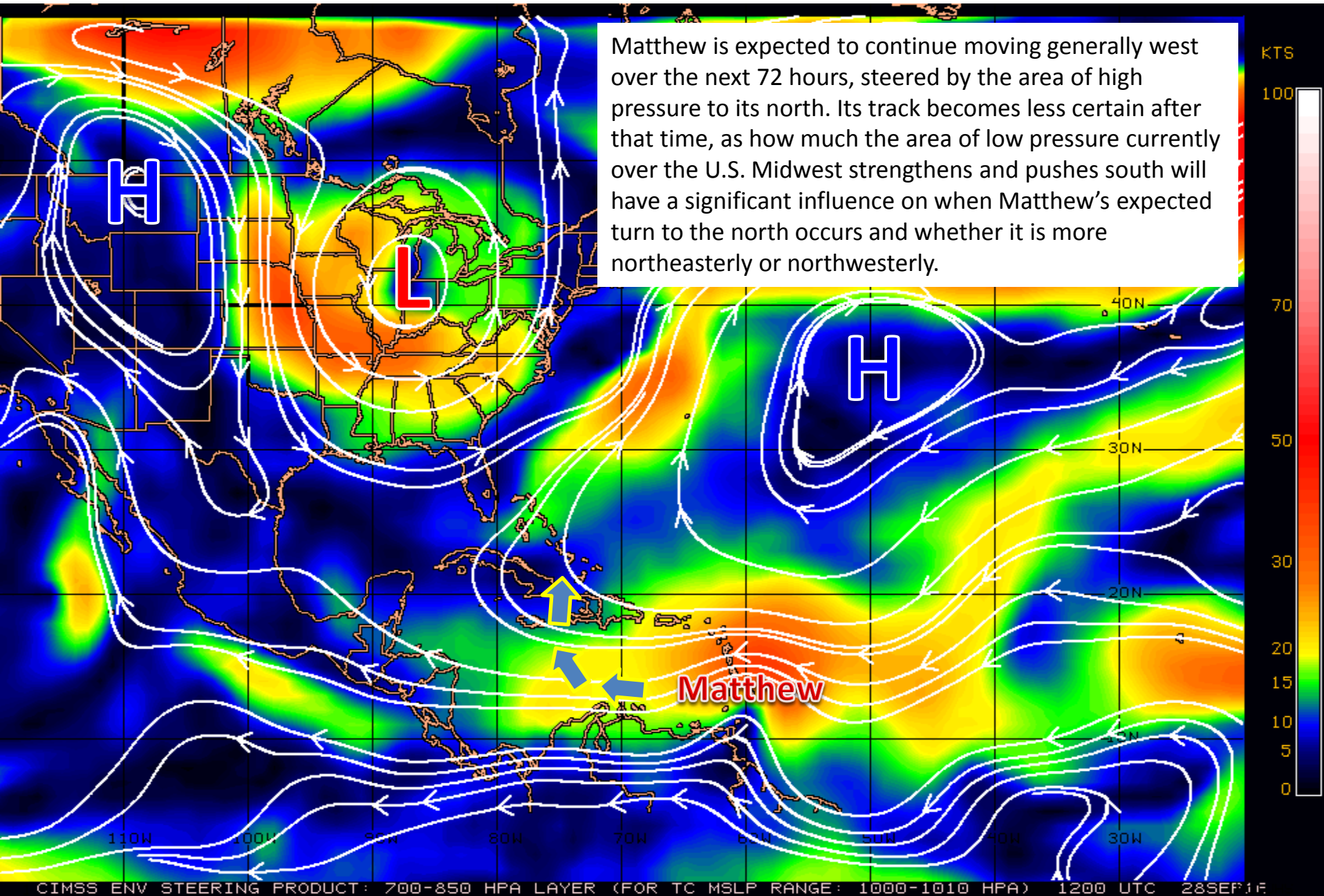
Forecast Positions:
 Tropical Cyclone  Post-Tropical
 Sustained Winds: D < 39 mph
 S 39-73 mph H 74-110 mph M > 110mph

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

Watches:
 Hurricane  Trop.Storm

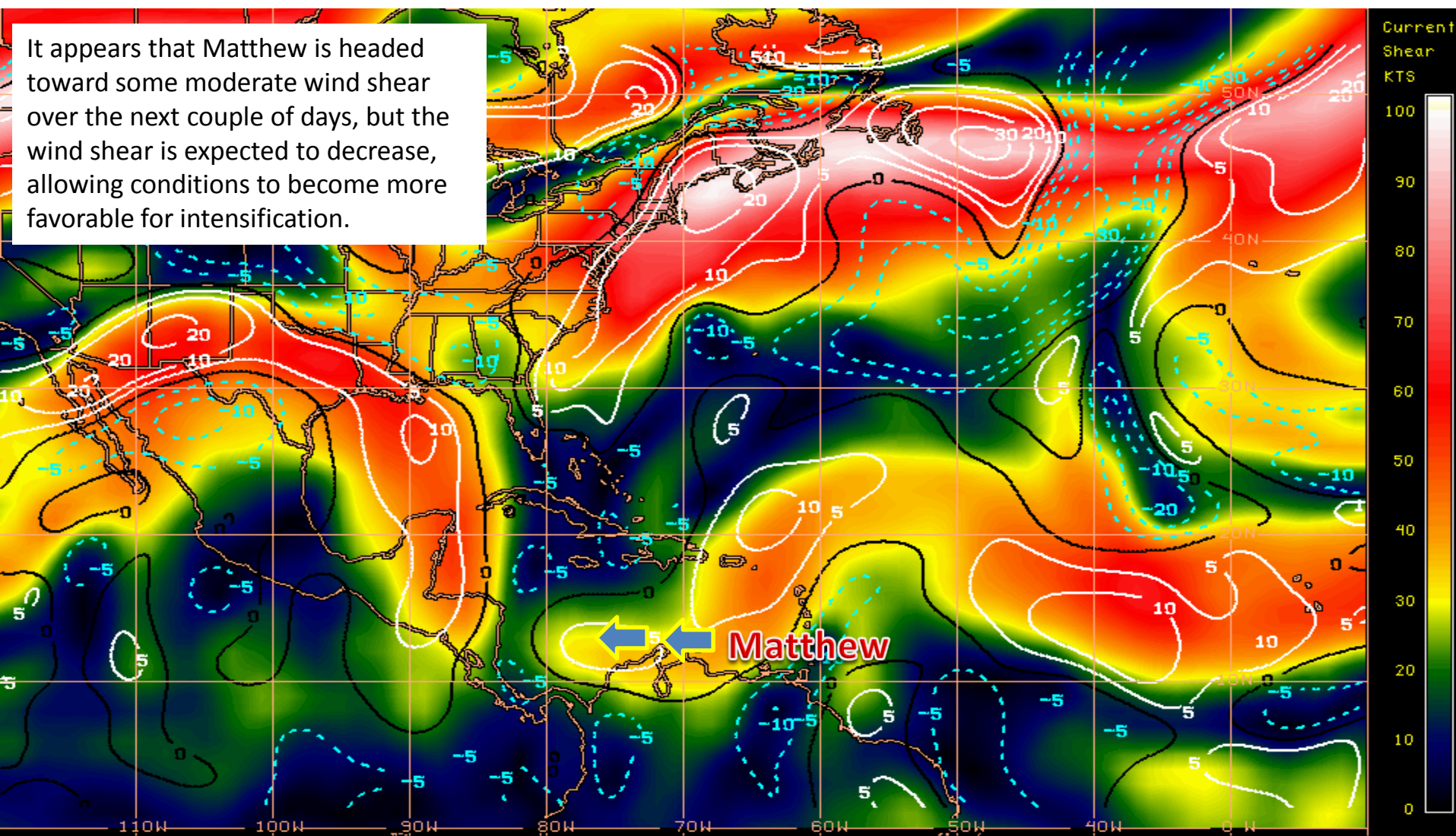
Warnings:
 Hurricane  Trop.Storm

Steering Currents



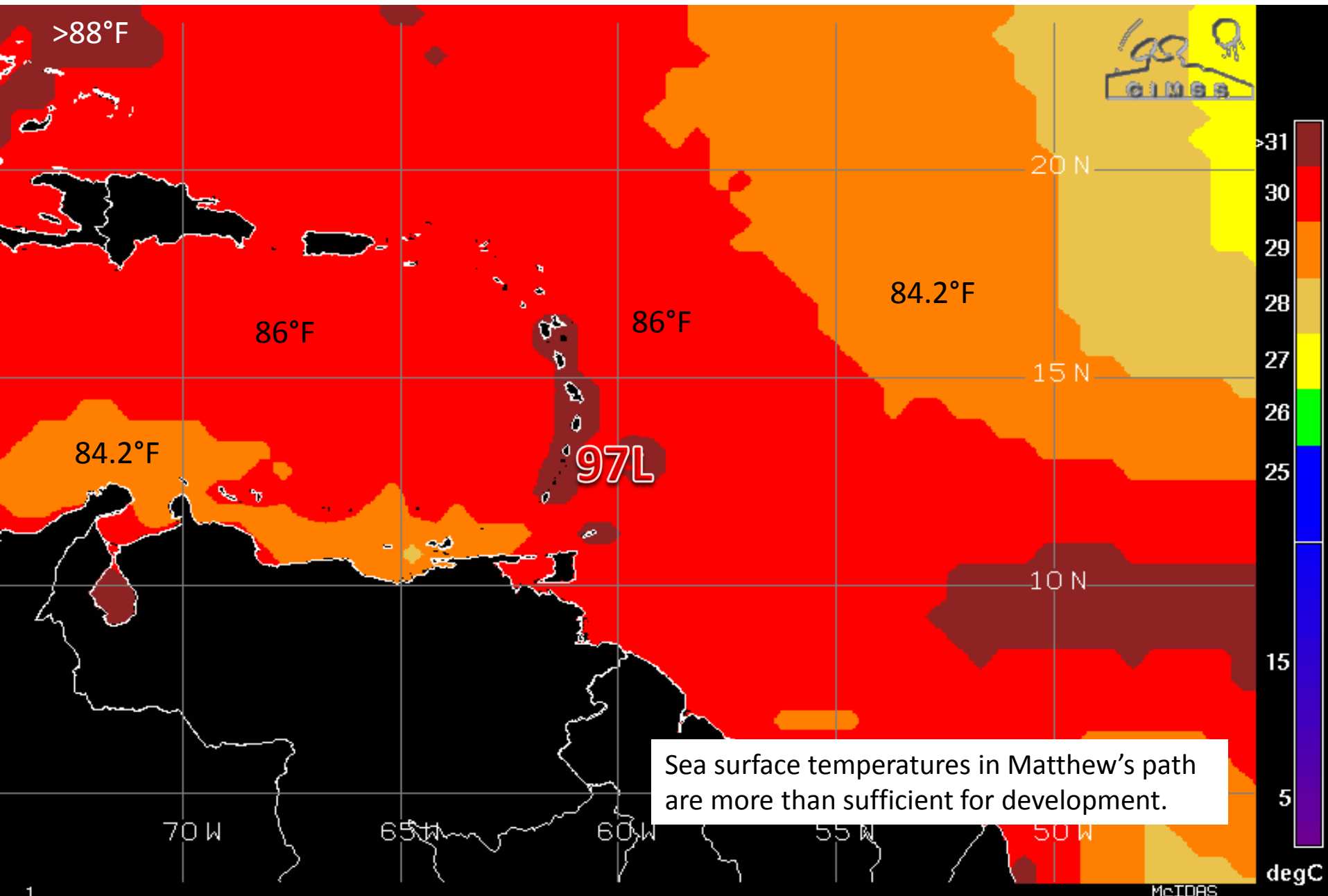
Current Wind Shear (Shaded) and Shear Tendency (Lines)

It appears that Matthew is headed toward some moderate wind shear over the next couple of days, but the wind shear is expected to decrease, allowing conditions to become more favorable for intensification.



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

Sea Surface Temperatures Near Matthew

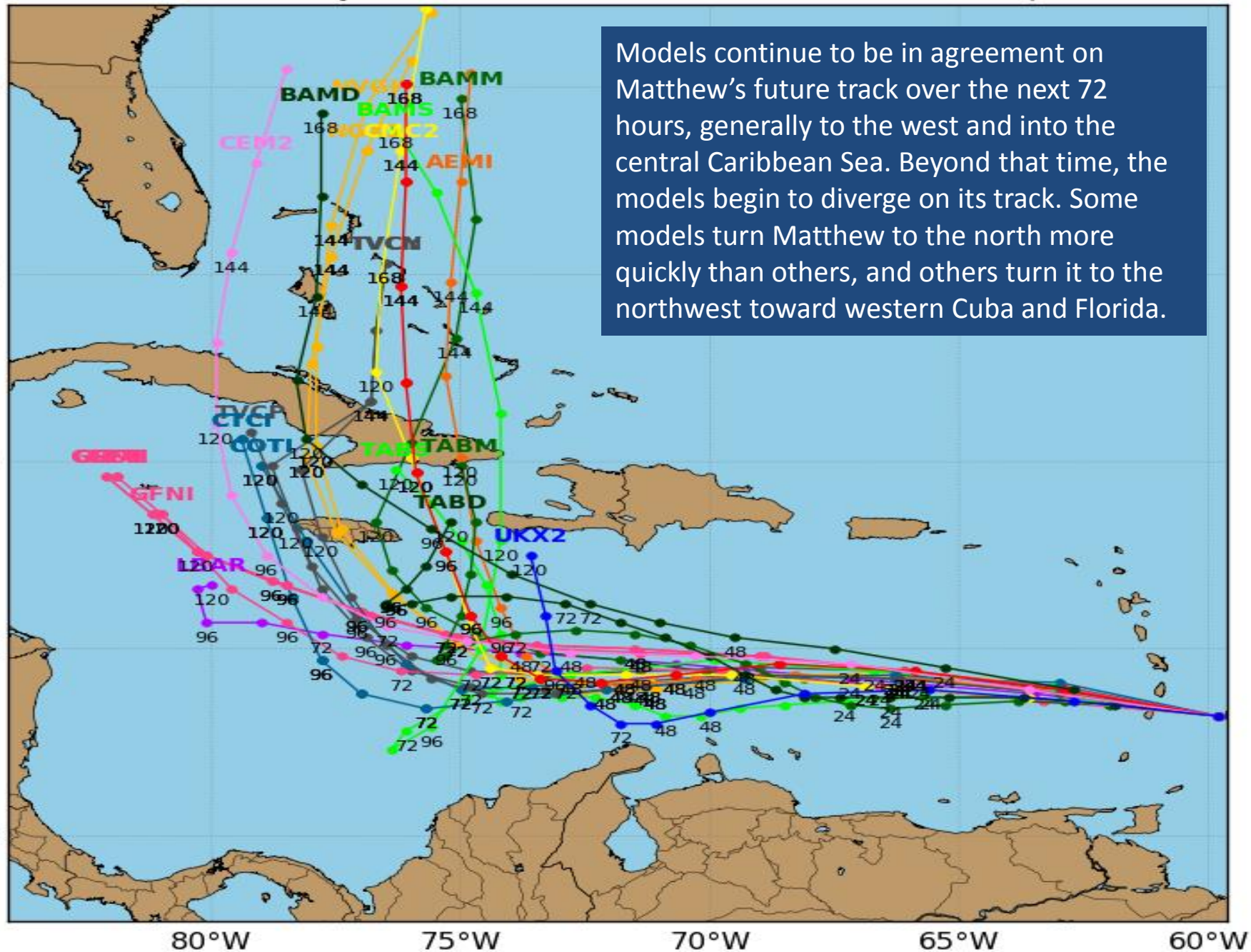


TS Matthew Model Track Guidance

Initialized at 12z Sep 28 2016

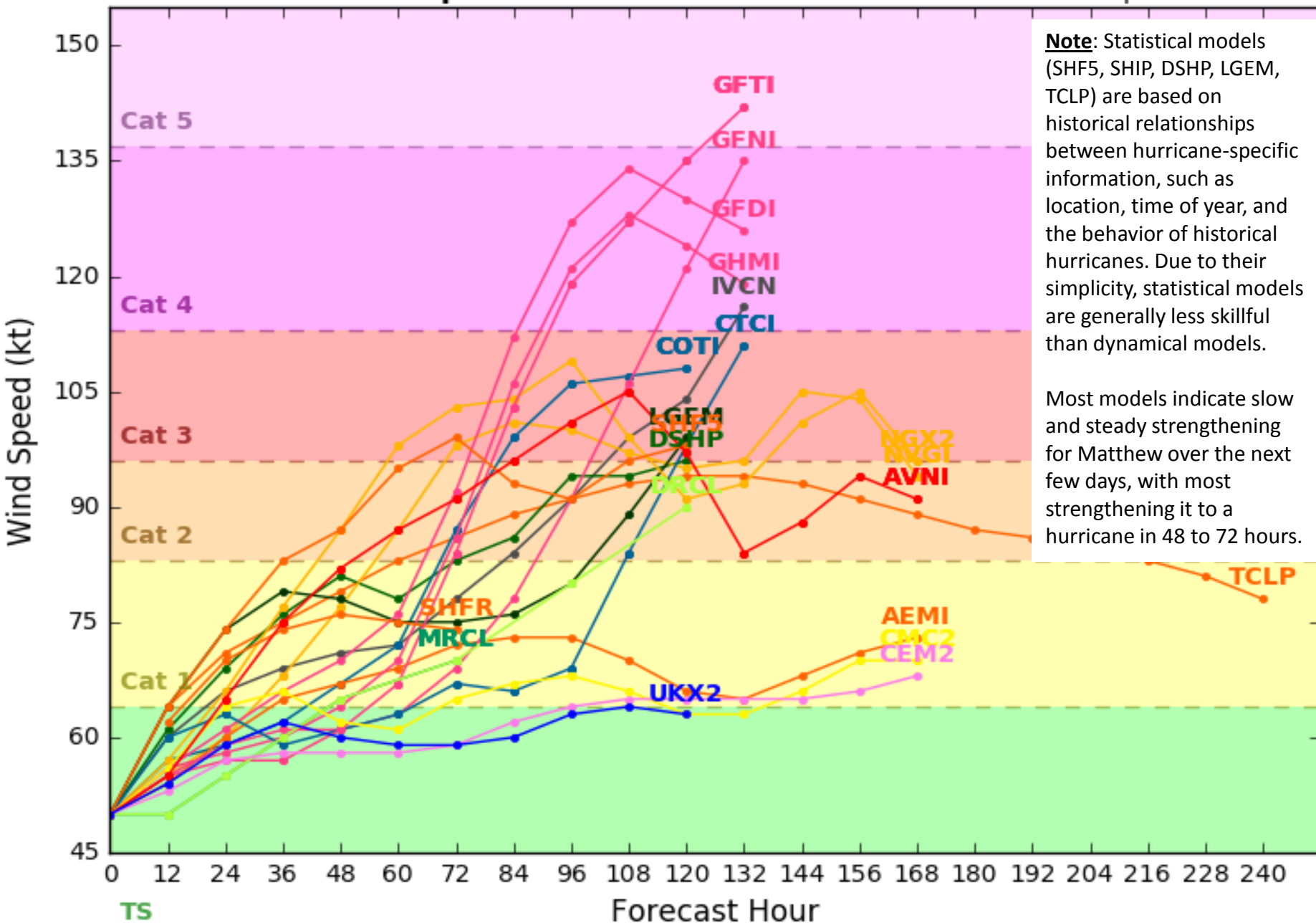
Levi Cowan - tropicaltidbits.com

Models continue to be in agreement on Matthew's future track over the next 72 hours, generally to the west and into the central Caribbean Sea. Beyond that time, the models begin to diverge on its track. Some models turn Matthew to the north more quickly than others, and others turn it to the northwest toward western Cuba and Florida.



Initialized at 12z Sep 28 2016

Levi Cowan - tropicaltidbits.com



Summary:

- At 11am EDT, Invest 97L became Tropical Storm Matthew when a Hurricane Hunter reconnaissance aircraft found a well-defined center of circulation while investigating the system.
- Matthew is located about 35 miles southeast of St. Lucia, or about 1525 miles southeast of Miami, with maximum sustained winds of 60 mph and is moving west at 21 mph.
- There is good agreement on Matthew's generally westward forecast track over the next 72 hours, taking it into the central Caribbean by Saturday morning.
- However, beyond that time, Matthew's forecast track is currently very uncertain. The location and strength of a low pressure system currently over the Midwest will have a major impact on Matthew's eventual track, as will the strength of the high pressure center currently to its north.
- Regardless, the official forecast takes Matthew toward Jamaica and eastern Cuba early next week after a north-northwesterly turn this weekend.
- It should be noted that there is currently a large discrepancy between the American and European global models on how fast Matthew moves after its forecast northerly turn. The official track forecast beyond 72 hours is a near consensus between the two models.
- Matthew is forecast to become a hurricane by Friday as warm sea surface temperatures, decreasing wind shear, and moist air should produce conditions favorable for intensification as it moves west through the Caribbean.
- Matthew is expected to still be a hurricane as it makes its forecasted turn to the north this weekend, possibly as a category 2 hurricane.
- Elsewhere, a weak area of low pressure off the coast of eastern Mexico is not expected to develop before moving inland later today and tonight.
- It has a 10% (low) chance of development over the next 48 hours and a 10% (low) chance over the next five days.

Florida Outlook:

- Expect an increased risk of rip currents along the Florida East Coast beginning early next week.
- It is too early to tell what other impacts, if any, Matthew could have on Florida.

The next briefing packet will be issued Thursday. For more information, visit the NHC website at www.nhc.noaa.gov.



TROPICAL UPDATE

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State Meteorological Support Unit

Florida Division of Emergency Management

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