

# Hurricane Matthew

Monday, October 3, 2016

0800

# Hurricane Update

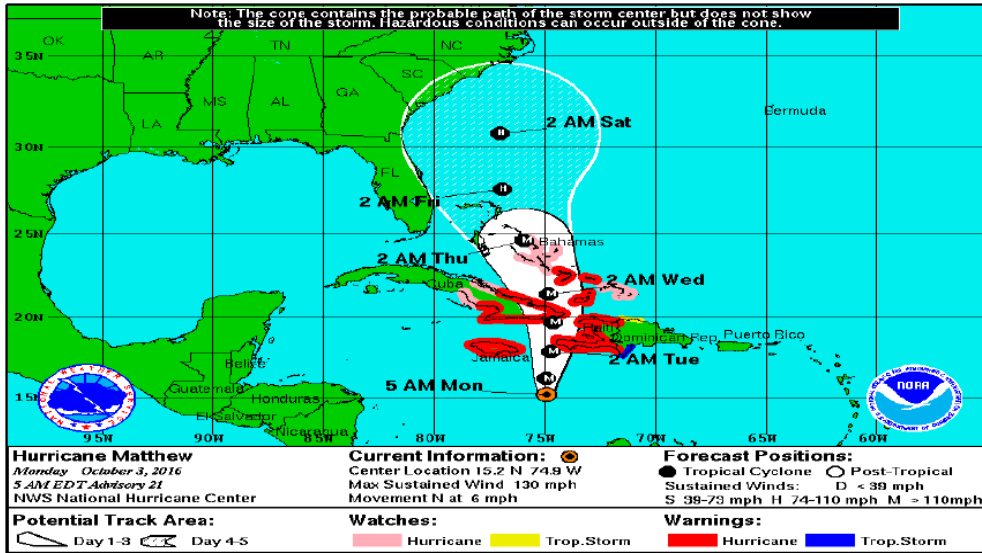
- The storm is very slow moving – 6mph and continues to wobble...once advisory puts the track to the east and out to sea and the next is back to the west. Please be patient and continue to monitor the storm.
- Once Matthew moves near the southeastern Bahamas on Wednesday, it is forecast to turn northwestward or north-northwestward.
- The model guidance is in relatively good agreement through 72 hours, but begin to diverge by days 4 and 5.
- It is important to remind users that **average NHC track forecast errors are around 175 miles at day 4 and 230 miles at day 5.**



# Hurricane MATTHEW – 3 October 2016 – 5:30 AM

VEOC – Increased Readiness

New or updated information is displayed in red text



## Situation Overview

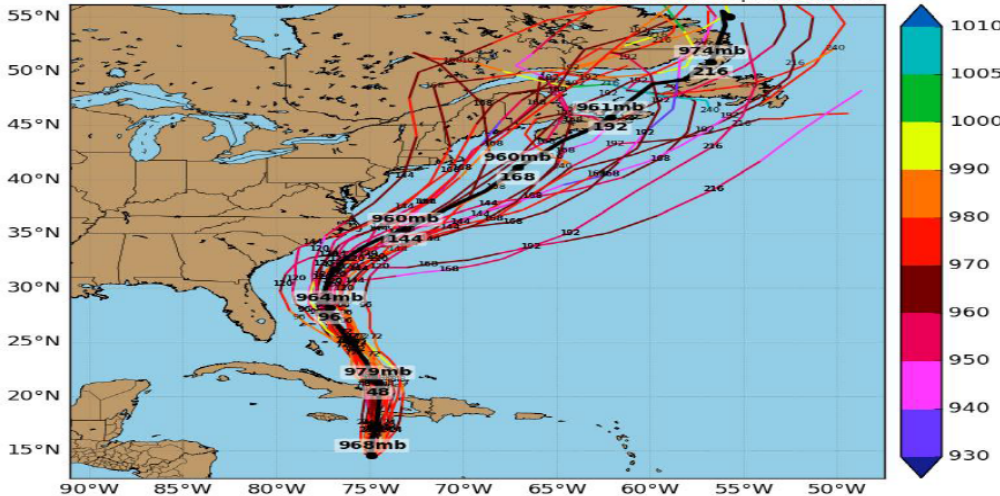
National Hurricane Center (NHC) Information – 3 October 0500

- **Strength:** Category 4 (Major Hurricane)
- **Current Location and Speed:**
  - 290 miles SW of Port Au Prince, Haiti
  - 230 miles SSE of Kingston, Jamaica
  - Moving N at 6 mph
- **Winds:**
  - 130 maximum sustained
  - 30 mile radius for hurricane force winds (74 mph)
  - 195 mile radius for tropical storm force winds (39 mph)

## Current and Projected Impacts

- **Current Watches and Warnings:**
  - **Hurricane Warning:** Jamaica, Haiti, portions of Cuba, and Southeastern Bahamas
  - **Hurricane Watch:** Portions of Cuba, Central Bahamas, and Turks and Caicos Islands
  - **Tropical Storm Warning & Watch:** Dominican Republic
- **Hazards (Projected):**
  - **Rainfall:**
    - 15-20 inches in Haiti (localized up to 40 inches)
    - 8-12 inches in Cuba (localized up to 20 inches)
    - 2-5 inches in rest of Caribbean (localized up to 8 inches)
  - **Storm Surge:** Up to 15 feet in the Bahamas but highly dependent on timing of storm and tidal cycle
- **CONUS Impacts / Timing:** The NHC track has been nudged westward at days 4 and 5; it is too soon to know whether, or how, MATTHEW might affect the U.S. east coast.

Hurricane MATTHEW GEFS Tracks & Min. MSLP (mb)  
Initialized at 00z Oct 03 2016  
Levi Cowan - tropicaltidbits.com



## State Actions

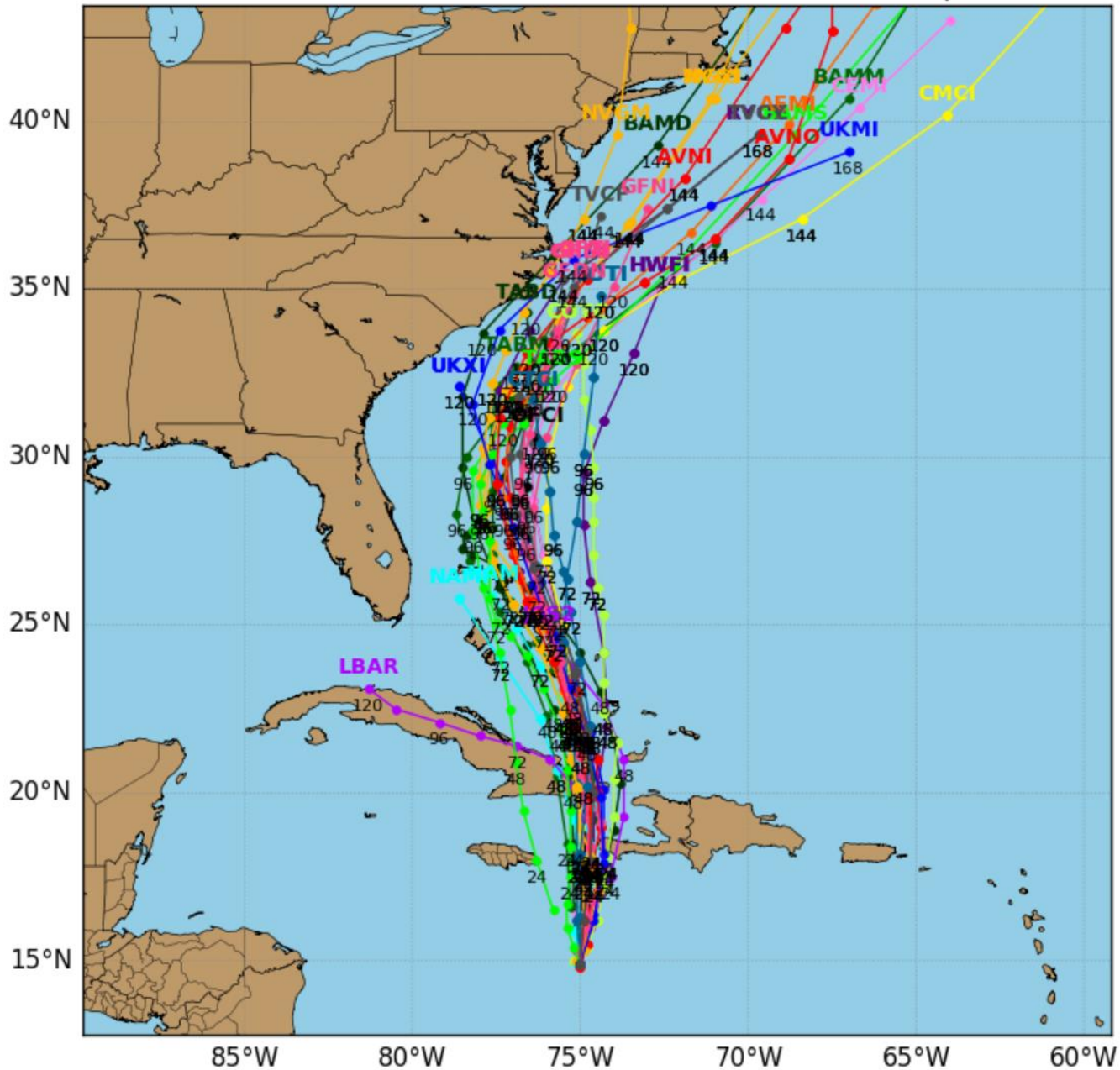
- VDEM is currently monitoring Hurricane Matthew
- Staff and partners are encouraged to review the hurricane plan: <http://www.vaemergency.gov/em-community/plans/2012COVEOP>

Hurricane Matthew is expected to remain a major hurricane (category 3+) through Tuesday

# Hurricane MATTHEW Model Track Guidance

Initialized at 06z Oct 03 2016

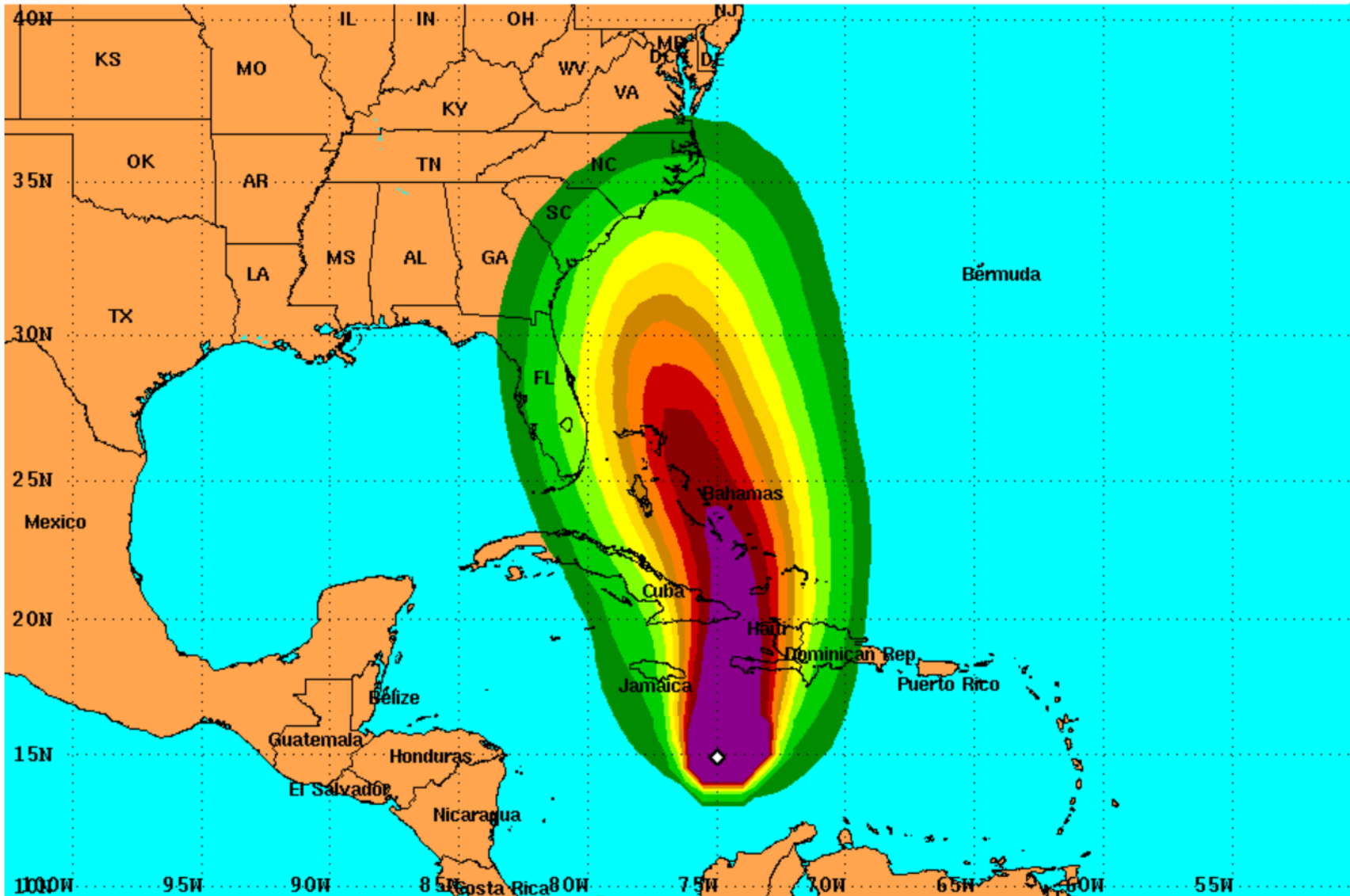
Levi Cowan - [tropicaltidbits.com](http://tropicaltidbits.com)





# Tropical Storm Force Wind Speed Probabilities

For the 120 hours (5 days) from 2 AM EDT Mon Oct 3 to 2 AM EDT Sat Oct 8



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

◇ indicates HURRICANE MATTHEW center location at 2 AM EDT Mon Oct 3 2016 (Forecast/Advisory #21)





A satellite image of Hurricane Matthew, showing a well-defined eye and a dense eyewall. The storm is centered over the Caribbean Sea, east of Jamaica. The image uses a color scale to represent cloud top temperatures, with purple and red indicating the warmest, lowest clouds near the eye, transitioning through yellow and green to blue and white for higher, colder clouds. A white lightning bolt icon is visible within the eye. A white track line shows the storm's path from the east towards the Caribbean. Labels for 'Kingston', 'Port-au-Prince', and 'Aruba' are visible on the map. A red box highlights the hurricane's name, and a white box shows the time. A black box displays coordinates and distance from Kingston, Jamaica. Another black box shows wind speed, pressure, and movement direction. A timestamp is at the bottom center.

# HURRICANE MATTHEW

8:00 AM EDT

LAT: 15.4°N LON: 74.9°W  
220 MI SE OF KINGSTON JAMAICA

WINDS: 130 MPH  
PRESSURE: 943 mb  
MOVING: N at 6 MPH

3-Oct-16 8:26 EDT