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**From:** Doolin, Jennifer [jennifer.doolin@fema.dhs.gov]  
**Sent:** 9/4/2017 9:00:32 PM  
**To:** Christine Diaz [Christine.Diaz@eog.myflorida.com]; Carlos Mercader [cmercader@prfaa.pr.gov]; Rochelle Corneiro [rochelle.corneiro@go.vi.gov]; Todd Smith [todd@totalspectrumsga.com]  
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**Subject:** FW: Hurricane Irma #22

Good afternoon,


Please see the lasted update on Hurricane Irma below.

Thanks,  
Jenn

Jenn Doolin  
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**Ex. 6**

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**Sent:** Monday, September 04, 2017 4:55 PM

**Subject:** Hurricane Irma #22

**...IRMA STRENGTHENS AS IT HEADS TOWARD THE LEEWARD ISLANDS...**

At 5pm AST, Hurricane Irma was located 490 miles east of the Leeward Islands with maximum sustained winds of 130 mph and a minimum central pressure of 944 mb.

Irma is moving toward the west near 13 mph and this general motion is expected to continue into Tuesday, followed by a turn toward the west-northwestward late Tuesday. On the forecast track, the center of Irma will move near or over portions of the northern Leeward Islands Tuesday night and early Wednesday. Hurricane conditions are possible for Puerto Rico and the US Virgin Islands by late Wednesday, with tropical storm conditions possible by early Wednesday.

Irma is a category 4 Hurricane on the Saffir-Simpson Hurricane Wind Scale. Additional strengthening is forecast during the next 48 hours.

**Hurricane Watch**

- \* U.S. Virgin Islands
- \* Puerto Rico, Vieques, and Culebra

**Storm Surge** - Heights above ground

- \* U.S. Virgin Islands except St. Croix - 4 to 6 ft
- \* Northern coast of Puerto Rico - 2 to 4 ft
- \* Southern coast of Puerto Rico and St. Croix - 1 to 2 ft

### **Hurricane Wind Probabilities**

Ponce, PR	15%
Aguadilla, PR	21%
San Juan, PR	30%
Vieques, PR	27%
Saint Thomas, VI	43%
Saint Croix, VI	19%

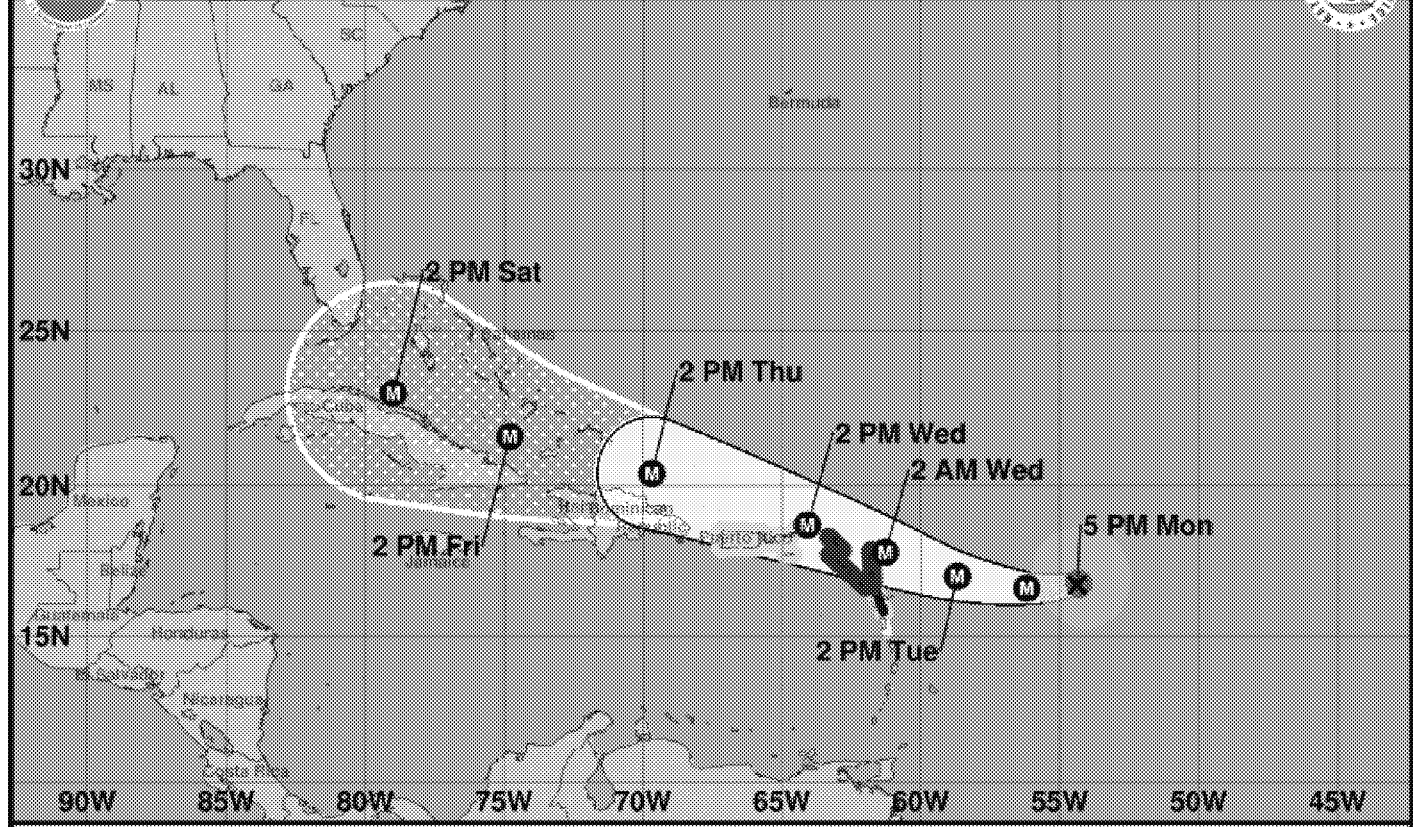
### **Tropical Storm Wind Probabilities**

Tampa, FL	9%
Orlando, FL	9%
W Palm Beach, FL	25%
Miami, FL	34%
Key West, FL	31%
Ponce, PR	57%
Aguadilla, PR	65%
San Juan, PR	76%
Vieques, PR	75%
Saint Thomas, VI	87%
Saint Croix, VI	68%

### **Hurricane Irma Graphics**



**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.**



**Hurricane Irma**  
 Monday September 04, 2017  
 5 PM AST Advisory 22  
 NWS National Hurricane Center

**Current information: x**  
 Center location 16.7 N 54.4 W  
 Maximum sustained wind 130 mph  
 Movement W at 13 mph

**Forecast positions:**  
 ● Tropical Cyclone ○ Post/Potential TC  
 Sustained winds: D < 39 mph  
 S 39-73 mph H 74-110 mph M > 110 mph

**Potential track area:**



**Watches:**



**Warnings:**

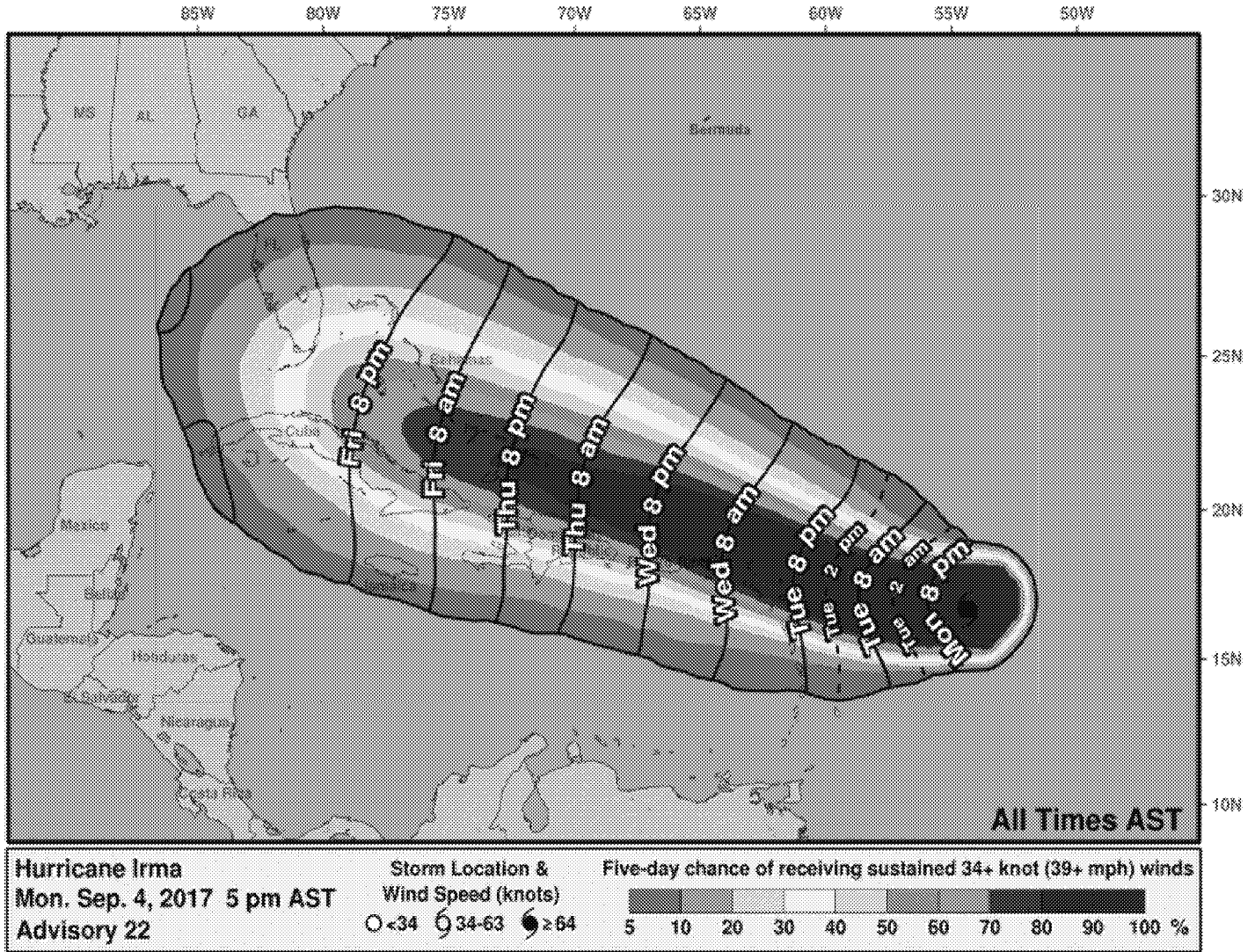


**Current wind extent:**





# Most Likely Arrival Time of Tropical-Storm-Force Winds



@fema.dhs.gov

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WTNT31 KNHC 042036  
TCPAT1

BULLETIN  
Hurricane Irma Advisory Number 22  
NWS National Hurricane Center Miami FL AL112017  
500 PM AST Mon Sep 04 2017

...IRMA STRENGTHENS AS IT HEADS TOWARD THE LEEWARD ISLANDS...  
...PREPARATIONS WITHIN THE WARNING AREA SHOULD BE RUSHED TO COMPLETION...

SUMMARY OF 500 PM AST...2100 UTC...INFORMATION

LOCATION...16.7N 54.4W  
ABOUT 490 MI...790 KM E OF THE LEEWARD ISLANDS  
MAXIMUM SUSTAINED WINDS...130 MPH...215 KM/H  
PRESENT MOVEMENT...W OR 265 DEGREES AT 13 MPH...20 KM/H  
MINIMUM CENTRAL PRESSURE...944 MB...27.88 INCHES

WATCHES AND WARNINGS

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CHANGES WITH THIS ADVISORY:

The government of France has issued a Tropical Storm Warning for Guadeloupe.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Hurricane Warning is in effect for...

- \* Antigua, Barbuda, Anguilla, Montserrat, St. Kitts, and Nevis
- \* Saba, St. Eustatius, and Sint Maarten
- \* Saint Martin and Saint Barthelemy

A Hurricane Watch is in effect for...

- \* Guadeloupe
- \* British Virgin Islands
- \* U.S. Virgin Islands
- \* Puerto Rico, Vieques, and Culebra

A Tropical Storm Warning is in effect for...

- \* Guadeloupe

A Tropical Storm Watch is in effect for...

- \* Dominica

A Hurricane Warning means that hurricane conditions are expected somewhere within the warning area. A warning is typically issued 36 hours before the anticipated first occurrence of tropical-storm-force winds, conditions that make outside preparations difficult or dangerous. Preparations to protect life and property should be rushed to completion.

A Hurricane Watch means that hurricane conditions are possible within the watch area. A watch is typically issued 48 hours before the anticipated first occurrence of tropical-storm-force winds, conditions that make outside preparations difficult or dangerous.

A Tropical Storm Warning means that tropical storm conditions are expected somewhere within the warning area within 36 hours.

A Tropical Storm Watch means that tropical storm conditions are possible within the watch area, generally within 48 hours.

Interests in the Dominican Republic, Haiti, the Turks and Caicos Islands, and the southeastern Bahamas should monitor the progress of Irma.

For storm information specific to your area in the United States, including possible inland watches and warnings, please monitor products issued by your local National Weather Service forecast office. For storm information specific to your area outside the United States, please monitor products issued by your national meteorological service.

DISCUSSION AND 48-HOUR OUTLOOK

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At 500 PM AST (2100 UTC), the center of Hurricane Irma was located near latitude 16.7 North, longitude 54.4 West. Irma is moving toward the west near 13 mph (20 km/h) and this general motion is expected to continue into Tuesday, followed by a turn toward the west-northwestward late Tuesday. On the forecast track, the center of Irma will move near or over portions of the northern Leeward Islands Tuesday night and early Wednesday.

Data from an Air Force Reserve Hurricane Hunter aircraft indicate that the maximum sustained winds have increased to near 130 mph (215 km/h) with higher gusts. Irma is a category 4 hurricane on the Saffir-Simpson Hurricane Wind Scale. Additional strengthening is forecast during the next 48 hours.

Hurricane-force winds extend outward up to 40 miles (65 km) from the center and tropical-storm-force winds extend outward up to 140 miles (220 km).

The latest minimum central pressure reported by reconnaissance aircraft is 944 mb (27.88 inches).

HAZARDS AFFECTING LAND  
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**STORM SURGE:** The combination of a dangerous storm surge and large breaking waves will raise water levels by as much as 6 to 9 feet above normal tide levels along the coasts of the extreme northern Leeward Islands within the hurricane warning area near and to the north of the center of Irma. Near the coast, the surge will be accompanied by large and destructive waves.

The combination of a dangerous storm surge and the tide will cause normally dry areas near the coast to be flooded by rising waters moving inland from the shoreline. The water is expected to reach the following heights above ground if the peak surge occurs at the time of high tide...

British and U.S. Virgin Islands except St. Croix...4 to 6 ft  
Northern coast of Puerto Rico...2 to 4 ft  
Southern coast of Puerto Rico and St. Croix...1 to 2 ft

The deepest water will occur along the immediate coast in areas of onshore winds, where the surge will be accompanied by large and destructive waves. Surge-related flooding depends on the relative timing of the surge and the tidal cycle, and can vary greatly over short distances. For information specific to your area, please see products issued by your local National Weather Service forecast office.

**WIND:** Hurricane conditions are expected within the hurricane warning area by Tuesday night, with tropical storm conditions expected by late Tuesday. Hurricane conditions are possible within the hurricane watch area in the Virgin Islands and Puerto Rico by late Wednesday, with tropical storm conditions possible by early Wednesday. Tropical Storm conditions are expected within the tropical storm warning area by late Tuesday.

**RAINFALL:** Irma is expected to produce total rainfall accumulations of 3 to 6 inches across the Leeward Islands, with isolated maximum amounts of 10 inches across the northern Leeward Islands. These rainfall amounts may cause life-threatening flash floods and mudslides.

**SURF:** Swells generated by Irma will affect the northern Leeward Islands during the next several days. These swells are likely to cause life-threatening surf and rip current conditions. Please consult products from your local weather office.

NEXT ADVISORY  
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Next intermediate advisory at 800 PM AST.  
Next complete advisory at 1100 PM AST.

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Forecaster Brown