

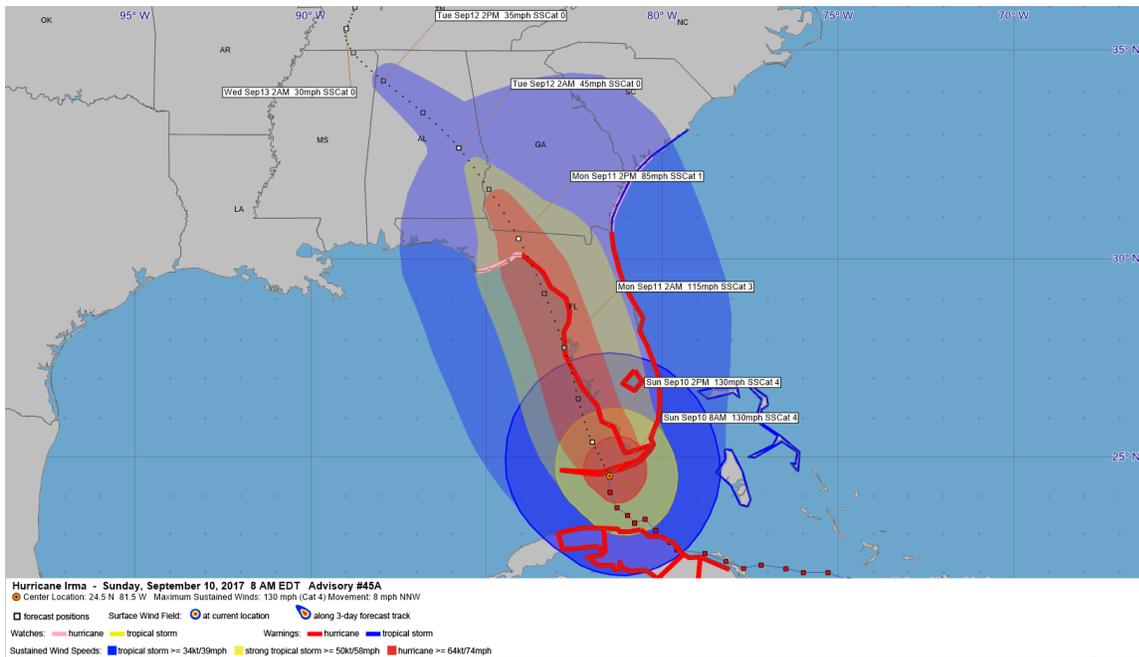
Storm Summary for Hurricane Irma

Sunday, September 10, 2017 at 8 AM EDT

(Output from Hurrevac, based on National Hurricane Center Forecast Advisory #45A)

Irma is currently a Category 4 major hurricane on the Saffir-Simpson Hurricane Wind Scale, with maximum sustained winds of 130 mph (115 kts), moving north-northwest at 8 mph. The estimated minimum central pressure is 929 mb. Hurricane-force winds extend outward up to 80 miles (130 km) from the storm center. Tropical storm-force winds extend outward up to 220 miles (350 km) from the storm center.

Certain coastal locations are under Hurricane Warning, Hurricane Watch, and Tropical Storm Warning. The geographic extents of these watches and warnings are detailed in the advisory text at the end of this report.



Wind Analysis for Pasco, FL

(Based upon Hurricane IRMA Advisory #45A)

Wind Probabilities

Tampa, FL, the closest reporting location, has within the 5-day forecast period of this advisory, a 83% chance of hurricane-force (64kt/74mph or greater) winds, a 96% chance of at least strong tropical storm-force (50kt/58mph) winds, and a 99% chance of at least tropical storm-force (34kt/39mph) winds.

Peak Wind*

Winds in Pasco, FL are projected to peak at 92kt/106mph around 4 AM on Monday, September 11, 2017

Wind Arrival and Duration*

Tropical storm-force winds (34kt/39mph) are forecast to begin in Pasco, FL on Sunday, September 10, 2017 at 11 AM. Winds of this magnitude or higher are forecast to continue for 30 hours.

Strong tropical storm-force winds (50kt/58mph) are forecast to begin in Pasco, FL on Sunday, September 10, 2017 at 8 PM. Winds of this magnitude or higher are forecast to continue for 16 hours.

Hurricane-force winds (64kt/74mph) are forecast to begin in Pasco, FL on Monday, September 11, 2017 at 12 AM. Winds of this magnitude or higher are forecast to continue for 9 hours.

* These wind estimations are limited to the first 72 hours (3 days) following advisory issuance, and are subject to considerable forecast uncertainty and generalization, especially if the storm is distant. Maximum sustained winds (the highest surface wind maintained over a 1 minute period) are reported here. Wind gusts and winds at higher elevations will be greater.

Evacuation Timing for Pasco, FL RegionBase Scenario

(Based upon Hurricane IRMA Advisory #45A)

The evacuation start time calculated by Hurrevac for Pasco, FL is Friday, September 8, 2017 at 12 PM. This is based on a 141 hour clearance time (Regional - Base - Category 4, Occupancy: Medium, Response: Medium).

Hurrevac calculates evacuation start times based on a worst case, direct hit scenario. The reporting of a start time by the program does not necessarily imply that evacuation is necessary, only that if an evacuation under this scenario was needed, actions would need to be initiated by this time in order to allow enough time for completion before arrival of tropical storm-force winds.

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TTAA00 KNHC DDHHMM

BULLETIN
Hurricane Irma Intermediate Advisory Number 45A
NWS National Hurricane Center Miami FL AL112017
800 AM EDT Sun Sep 10 2017

...CENTER OF IRMA ABOUT TO MAKE LANDFALL IN THE LOWER FLORIDA
KEYS...

SUMMARY OF 800 AM EDT...1200 UTC...INFORMATION

LOCATION...24.5N 81.5W
ABOUT 20 MI...30 KM ESE OF KEY WEST FLORIDA
ABOUT 110 MI...180 KM S OF NAPLES FLORIDA
MAXIMUM SUSTAINED WINDS...130 MPH...215 KM/H
PRESENT MOVEMENT...NNW OR 330 DEGREES AT 8 MPH...13 KM/H
MINIMUM CENTRAL PRESSURE...929 MB...27.43 INCHES

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY:

The Government of Cuba has discontinued the Hurricane Warning for the Cuban provinces of Ciego de Avila, Sancti Spiritus, and Villa Clara.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

- A Storm Surge Warning is in effect for...
- * South Santee River southward to Jupiter Inlet
 - * North Miami Beach southward around the Florida peninsula to the Ochlockonee River
 - * Florida Keys
 - * Tampa Bay
- A Hurricane Warning is in effect for...
- * Fernandina Beach southward around the Florida peninsula to Indian Pass
 - * Florida Keys
 - * Lake Okeechobee
 - * Florida Bay
 - * Cuban provinces of Matanzas and La Habana
- A Hurricane Watch is in effect for...
- * North of Fernandina Beach to Edisto Beach
- A Tropical Storm Warning is in effect for...
- * West of Indian Pass to the Okaloosa/Walton County Line
 - * North of Fernandina Beach to South Santee River
- A Tropical Storm Watch is in effect for...
- * Bimini and Grand Bahama

A Storm Surge Warning means there is a danger of life-threatening inundation, from rising water moving inland from the coastline, during the next 36 hours in the indicated locations. For a

depiction of areas at risk, please see the National Weather Service Storm Surge Watch/Warning Graphic, available at hurricanes.gov. This is a life-threatening situation. Persons located within these areas should take all necessary actions to protect life and property from rising water and the potential for other dangerous conditions. Promptly follow evacuation and other instructions from local officials.

Interests elsewhere in Cuba and the southeastern United States 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

At 800 AM EDT (1200 UTC), the center of Hurricane Irma was located near latitude 24.5 North, longitude 81.5 West. Irma is moving toward the north-northwest near 8 mph (13 km/h), and an increase in forward speed is expected later today, with that motion continuing through Monday. On the forecast track, the eye of Irma should move over the Lower Florida Keys shortly, and then move near or over the west coast of the Florida Peninsula later today through tonight. Irma should then move inland over northern Florida and southwestern Georgia Monday afternoon.

Maximum sustained winds are near 130 mph (215 km/h) with higher gusts. Irma is a category 4 hurricane on the Saffir-Simpson Hurricane Wind Scale. While weakening is forecast, Irma is expected to remain a powerful hurricane while it moves through the Florida Keys and near the west coast of Florida.

Hurricane-force winds extend outward up to 80 miles (130 km) from the center and tropical-storm-force winds extend outward up to 220 miles (350 km). A wind gust to 89 mph (143 km/h) was recently measured at the Key West National Weather Service Forecast Office. Sustained winds of 46 mph (74 km/h) with a gust to 72 mph (117 km/h) was recently reported at Tamiami Airport in West Kendall, Florida.

The estimated minimum central pressure is 929 mb (27.43 inches).

HAZARDS AFFECTING LAND

STORM SURGE: 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...

Cape Sable to Captiva...10 to 15 ft
Captiva to Ana Maria Island...6 to 10 ft
Card Sound Bridge through Cape Sable, including the Florida Keys...
5 to 10 ft
Ana Maria Island to Clearwater Beach, including Tampa Bay...

5 to 8 ft

North Miami Beach to Card Sound Bridge, including Biscayne Bay...

3 to 5 ft

South Santee River to Fernandina Beach...4 to 6 ft

Clearwater Beach to Ochlockonee River...4 to 6 ft

Fernandina Beach to Jupiter Inlet...2 to 4 ft

North of North Miami Beach to Jupiter Inlet...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.

The combination of a life-threatening storm surge and large breaking waves will raise water levels ABOVE NORMAL TIDE LEVELS by the following amounts 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.

Northern coast of Cuba in the warning area...5 to 10 ft

WIND: Hurricane conditions are expected to continue within the hurricane warning area along the north coast of Cuba through this morning. Hurricane conditions are spreading across portions of the Florida Keys and southern Florida. Winds affecting the upper floors of high-rise buildings will be significantly stronger than those near ground level. Tropical storm and hurricane conditions are expected to spread northward across the remainder of the warning areas through Monday. Tropical storm conditions are possible in the watch area in the Northwestern Bahamas today.

RAINFALL: Irma is expected to produce the following rain accumulations through Wednesday:

Western Cuba...Additional 3 to 6 inches, isolated 10 inches.

Western Bahamas...Additional 2 to 4 inches, isolated 6 inches.

The Florida Keys...15 to 20 inches, isolated 25 inches.

The southern Florida peninsula...10 to 15 inches, isolated 20 inches.

The remainder of the Florida peninsula and southeast Georgia...8 to 12 inches, isolated 16 inches.

The rest of Georgia, eastern Florida Panhandle, southern and western South Carolina, and western North Carolina...3 to 6 inches, isolated 10 inches.

Eastern Alabama and southern Tennessee...2 to 5 inches.

In all areas this rainfall may cause life-threatening flash floods and, in some areas, mudslides.

TORNADOES: Tornadoes are possible through tonight, mainly across southern, central, and eastern portions of the Florida Peninsula.

THE EYE: Do not venture outside when the calm eye of the hurricane passes over, as dangerous winds will return very quickly when the eye moves away.

SURF: Swells generated by Irma are affecting the southeast coast of

the United States. These swells are likely to cause life-threatening surf and rip current conditions. Please consult products from your local weather office.

NEXT ADVISORY

Next complete advisory at 1100 AM EDT.

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Forecaster Pasch

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Hurricane Irma Discussion Number 45
NWS National Hurricane Center Miami FL AL112017
500 AM EDT Sun Sep 10 2017

An Air Force Reserve Hurricane Hunter aircraft reported 700-mb flight-level winds of 128 kt in the northeastern eyewall, along with surface wind estimates of 110-115 kt from the Stepped Frequency Microwave Radiometer. In addition, the aircraft data shows that the central pressure has fallen to 928 mb. Based on these data, the initial intensity has been increased to 115 kt, again making Irma a Category 4 hurricane.

Irma has made its long-awaited turn, with the initial motion now 325/7. For the next 36-48 h, the cyclone will be steered generally north-northwestward with an increase in forward speed between a low- to mid-level ridge over the western Atlantic and a developing mid- to upper-level low over the Gulf Coast states and the northern Gulf of Mexico. After that, the system should turn northwestward and then move somewhat erratically near the end of its life as it merges with the low. The tightly-clustered track guidance has changed little since the last advisory, and the new NHC forecast is very close to the previous one. The eye should move across the Lower Florida Keys in the next few hours. After that, the hurricane's track almost parallel to the west coast of Florida makes it very difficult to pinpoint exactly where Irma will cross the Florida Gulf coast.

Given current trends, some additional strengthening could occur during the next several hours. However, vertical wind shear is increasing over Irma, and the shear is expected to become strong within 24 h. This, combined with land interaction, should cause at least a steady weakening from 12-36 h. The new intensity forecast is slightly lower than that of the previous advisory at those times, but it still calls for Irma to be a major hurricane at its closest approach to the Tampa Bay area. A faster weakening is likely after Irma moves across the Florida Panhandle and starts to merge with the aforementioned upper-level low, and the new forecast follows the trend of the previous one in calling for the system to decay to a remnant low by 72 h and to dissipate completely by 120 h.

KEY MESSAGES:

1. Irma is expected bring life-threatening wind and storm surge to the Florida Keys and southwestern Florida as an extremely dangerous major hurricane today, and these conditions will spread into central and northwestern Florida tonight and Monday. Preparations in the Florida Keys and southwest Florida should be complete since hurricane-force winds are spreading into that area.

2. There is an imminent danger of life-threatening storm surge flooding along much of the Florida west coast, including the Florida Keys, where a Storm Surge Warning is in effect. The threat of catastrophic storm surge flooding is highest along the southwest coast of Florida, where 10 to 15 feet of inundation above ground level is expected. This is a life-threatening situation.

3. Irma will bring life-threatening wind impacts to much of Florida regardless of the exact track of the center. Wind hazards from Irma are also expected to spread northward through much of Georgia and portions of South Carolina and Alabama.

4. Irma is expected to produce very heavy rain and inland flooding. Total rain accumulations of 15 to 20 inches with isolated amounts of 25 inches are expected over the Florida Keys through Sunday evening. Through Monday, Irma is expected to produce rainfall amounts of 8 to 15 inches with isolated amounts of 20 inches across the Florida peninsula and southeast Georgia, while across the rest of Georgia, eastern Florida Panhandle, southern and western South Carolina, and western North Carolina, a total of 3 to 6 inches with isolated amounts of 10 inches are expected. Significant river flooding is possible in these areas. Through Tuesday, Irma will also bring periods of heavy rain into the Tennessee Valley, where an average of 2 to 5 inches with isolated higher amounts is forecast across eastern Alabama and southern Tennessee. This includes some mountainous areas which are more prone to flash flooding. Residents throughout the southeast states should remain aware of the flood threat and stay tuned to forecasts and warnings.

FORECAST POSITIONS AND MAX WINDS

INIT 10/0900Z 24.1N 81.5W 115 KT 130 MPH
12H 10/1800Z 25.4N 82.0W 115 KT 130 MPH
24H 11/0600Z 27.8N 82.8W 100 KT 115 MPH
36H 11/1800Z 30.5N 84.1W 75 KT 85 MPH...INLAND
48H 12/0600Z 32.7N 85.8W 40 KT 45 MPH...INLAND
72H 13/0600Z 35.5N 89.0W 25 KT 30 MPH...POST-TROP/INLAND
96H 14/0600Z 37.5N 88.0W 20 KT 25 MPH...POST-TROP/INLAND
120H 15/0600Z...DISSIPATED

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