

# TROPICAL UPDATE

### 5 PM EDT

#### Friday, September 8, 2017

#### Hurricane Irma, Hurricane Jose, and Hurricane Katia

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**



Hurricane Irma 5 PM EDT Fri Sep 08 2017 Position 22.1-N-76.5.W, Maximum Winds 155 mph Gusts 190 mph Movement W at 11 mph Minimum Pressure 925 mb (27.31 inches)

Blue Marble basemap imagery courtesy NASA

Satellite 9:34 PM UTC 5:34 PM EDT

• wunderground.com





Sustained Wind Speeds: tropical storm >= 34kt/39mph 📒 strong tropical storm >= 50kt/58mph 📕 hurricane >= 64kt/74mph

#### Hurricane IRMA Model Intensity Guidance

Initialized at 06z Sep 08 2017

Levi Cowan - tropicaltidbits.com





The Hurricane Warning area also includes the entire Florida Keys and Lake Okeechobee.









#### Storm Surge Warning Storm Surge Watch

Zoomable maps available here:

http://www.nhc.noaa.gov/ refresh/graphics\_at1+shtm I/154730.shtml?wsurge#c ontents

Probabilistic Storm Surge http://slosh.nws.noaa.gov /psurge2.0/index.php?S=Ir ma2017&Adv=34&Ty=e10 &Z=z4&D=agl&Ti=cum&M sg=17&Help=about

60mi

Storm Surge Warning Storm Surge Watch

## STORM SURGE INUNDATION ABOVE NORMAL TIDE LEVELS



# Flash Flood Watch through Monday for Potential Lake Okeechobee Overwash At Construction Sites Along the Dike.



# Rainfall Forecast SUNDAY

### Rainfall Forecast MONDAY



Generally 6-12", locally up to 20" anywhere in Florida Peninsula.

Tampa St. Peters **River Flood** Warnings for Early Next Week liami Based on **Expected Rainfall** Flood Watches for South Florida, likely to expand north tomorrow.

# FLASH FLOOD THREAT SATURDAY & SUNDAY

The flood threat for Florida will begin to increase during the day Saturday as the first outer bands arrive, and continue to rise into the overnight hours as heavier, more consistent heavy rain moves into the area.





Hurricane Jose 5 PM EDT Fri Sep 08 2017 Position 16.6 N 58.3 W Maximum Winds 150 mph Gusts 185 mph Movement WNW at 17 mph Minimum Pressure 940 mb (27.75 inches)

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Blue Marble basemap imagery courtesy NASA

#### Satellite 9:26 PM UTC 5:26 PM EDT

wunderground.com





#### Hurricane JOSE Model Intensity Guidance

Initialized at 18z Sep 08 2017







Hurricane Katia 5PMEDTFri Sep 08 2017 Position 21:0N 96.5 W Maximum Winds 105 mph. Gusts 125 mph Movement WSW at 6 mph Minimum Pressure 972 mb (28.69 inches)

Blue Marble basemap imagery-courtesy NASA

5:19 PM EDT

wunderground.com





## Summary

- At 5pm EDT Friday, Hurricane Irma was located 195 miles east of Caibarien, Cuba, or about 380 miles southeast of Miami.
- Maximum sustained winds remain at 155 mph with higher gusts, making Irma a high-end category 4 storm on the Saffir-Simpson Hurricane Wind scale.
- Some fluctuations in intensity are likely during the next day or two, but Irma is forecast to remain a powerful hurricane due to low wind shear and favorable sea-surface temperatures.
- Irma continues moving steadily toward the west near 12 mph, and this general motion is expected to continue overnight along with a decrease in forward speed, before a northward turn occurs on Saturday.
- The core of the hurricane will move ashore near the Florida Keys and the southern Florida Peninsula Sunday morning.
- As a reminder, do not focus on the center line of the forecast cone. The center of Irma still has the potential to move anywhere within the cone of uncertainty. Models have still not come into complete agreement and there have been small westward shifts in the track last night and today.
- In addition, tropical Storm force winds extend out 185 miles from the center, and hurricane force winds 70 miles, meaning a large portion of the Peninsula may experience hurricane force winds and much of the state will at least feel tropical storm conditions.
- At 5pm EDT Friday, Hurricane Jose was located 335 miles east-southeast of the northern Leeward Islands, which is about 1,600 miles southeast of Miami, Florida.
- Maximum sustained winds remain at 150 mph, which is a Category 4 on the Saffir-Simpson Hurricane Wind Scale.
- Jose was expected to gradually weaken over the weekend as it turns northwest, passing just north of the Leeward and Virgin Islands as a major hurricane.
- A turn to the north and northeast along with a slower forward speed is expected early next week.
- At 5pm EDT Friday, Hurricane Katia was located in the southwestern Gulf of Mexico about 120 miles north of Veracruz, Mexico or 950 miles west-southwest of Key West, Florida.
- Maximum sustained winds are near 105mph, making Katia a Category 2 hurricane.
- Katia is expected to make landfall in eastern Mexico tonight.
- A tropical wave is expected to emerge off the coast of Africa over the weekend.
- Environmental conditions appear to be conducive for gradual development of this system next week as it moves westnorthwestward over the eastern Atlantic Ocean
- There is currently a 20% chance of it becoming a tropical depression within the next 5 days, but these chances could increase.

## Florida Outlook

- All of the Florida Peninsula and Florida Big Bend lie within the NHC 5 day cone of error and could feel impacts from this system regardless of the eventual path.
- **Hurricane Warnings** in effect for: Palm Beach, Broward, Miami-Dade, Monroe, Collier, Glades, Hendry, Lee, Charlotte, Sarasota, Manatee, Hardee, DeSoto, Highlands, Okeechobee, Indian River, St. Lucie and Martin Counties.
- Hurricane Watches in effect for Brevard, Osceola, Polk, Hillsborough, Pinellas, Pasco, Hernando, Citrus, Levy, Sumter, Orange, Lake, Seminole and Volusia Counties.
- Wind impacts to South Florida from Irma could occur as early as early Saturday morning, with the most likely time frame for tropical storm force winds arriving Saturday afternoon. Hurricane force winds could arrive in Southeast Florida early Sunday morning. Tropical storm force winds will most likely arrive in Central Florida on Sunday and North Florida Sunday night.
- **Storm Surge watches or warnings** are in effect south of the Flagler-Volusia County line on the East Coast and Anclote River on the West Coast, including Tampa Bay. This includes all of the Florida Keys.
- 6-12' of storm surge is expected for the Southwest Florida coast with 5-10' for the rest of South Florida and the Keys. 3-6' are possible for the Treasure and Sun Coasts. 3-5' in the Tampa Bay region.
- **Storm-total rainfall** amounts of 8-15" with isolated amounts to 20" are expected for much of the Florida Peninsula with 4-8 inches (isolated 12") for West and North Florida from Tampa northward.
- Ocean swells from Irma have already reached South Florida and will produce a **high risk of rip currents** from today through the weekend. Rip current risk will also go up for Gulf Coast beaches this weekend.
- Slight Risk for Tornadoes for South Florida Saturday into Saturday night with a marginal risk for Central Florida.
- **Flash Flood Watch** in effect for specific areas in eastern Glades County, northern Hendry County and western Palm Beach County due to potential overtopping of the dyke on the south end of Lake Okeechobee.
- **Flood Watches** for South Florida and many river flood warnings have been issued ahead of the expected heavy rainfall.
- Hurricane Jose does not pose a threat to Florida within the next 5-7 days, but should be monitored.
- Hurricane Katia does not pose a threat to Florida, but ocean swells from the system may affect portions of the Panhandle coast over the weekend and increase the rip current risk there.

Another briefing packet will be issued Friday morning. For more information, visit the NHC website at <u>www.hurricanes.gov</u>.



# TROPICAL UPDATE

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### Florida Division of Emergency Management

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