

TROPICAL UPDATE

5 AM 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 <u>5 AMEDT</u> Fri Sep 08 2017 Position 21-7-N-73.8-W Maximum Winds 155 mph Gusts 190 mph Movement WNW at 16 mph Minimum Pressure 925 mb(27.31 inches)

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⁹ Blue Marble basemap imagery courtesy NASA

Satellite 9:16 AM UTC 5:16 AM EDT

wunderground.com





Sustained Wind Speeds: tropical storm >= 34kt/39mph Strong tropical storm >= 50kt/58mph Intricane >= 64kt/74mph



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

*Additional hurricane watches and warnings will be issued in the northern half of the Peninsula later today.





Hurricane IRMA Model Intensity Guidance

Initialized at 06z Sep 08 2017

Levi Cowan - tropicaltidbits.com





Storm Surge Warning Storm Surge Watch Zoomable maps available here: http://www.nhc.noaa.gov/ refresh/graphics_at1+shtm l/154730.shtml?wsurge#c

<u>ontents</u>

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

STORM SURGE INUNDATION ABOVE NORMAL TIDE LEVELS 3-6 3-5 ft Miami 5-10 Key West BC STA Bahamas 5-10 15-20 ft Turks and Caicos Islands Cuba 3-5 100 1-3 ft Haiti Dominican Republic

Rainfall Forecast SUNDAY

Cumulative Rainfall Forecast Next 5 Days



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

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 Thu Sep 07 2017 Position 15.5 N 52.4 W Maximum Winds 120 mph Gusts 150 mph Movement WNW at 18 mph Minimum Pressure 966 mb (28.52 in ches) Blue Marble basemap imagery courtesy NASA

Satellite 9:58 PM UTC 5:58 PM EDT

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Hurricane JOSE Model Track Guidance



Hurricane JOSE Model Intensity Guidance Initialized at 18z Sep 07 2017







Hurricane Katia 5AM EDT Fri Sep 08 2017 Position 21.3 N 95.4 W Maximum Winds 90 mph Gusts 115 mph Movement WSW at 3 mph Minimum Pressure 977 mb (28:84 in ches)

Blue Marble basemap imagery courtesy NASA

Satellite 10:48 AM UTC 6:18 AM EDT

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Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida





Summary

- At 5am EDT Friday, Hurricane Irma was located in the southeastern Bahamas, about 495 miles southeast of Miami.
- Maximum sustained winds have decreased to near 155 mph with higher gusts, making Irma a 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 quickly toward the west-northwest near 16 mph, and this general motion is expected to continue for the next day or two along with a decrease in forward speed, before a northward turn occurs on Saturday.
- The core of the hurricane will move between the north coast of Cuba and the Bahamas during the next day or two, and be 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 was a small west shift in the track overnight.
- In addition, tropical Storm force winds extend out 185 miles from the center, and hurricane force 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 5am EDT Friday, Hurricane Jose was located 440 miles southeast of Barbuda, which is about 1,740 miles southeast of Miami, Florida.
- Maximum sustained winds have increased to 125 mph, which is a Category 3 on the Saffir-Simpson Hurricane Wind Scale.
- Additional strengthening is possible over the next few days, followed by some weakening over the weekend as it turns northwest, passing just north of the Leeward/Virgin Island.
- A turn to the north and northeast along with a slower forward speed is expected early next week.
- At 5am EDT Friday, Hurricane Katia was located in the southwestern Gulf of Mexico about 940 miles west-southwest of Key West, Florida.
- Maximum sustained winds are near 90mph, making Katia a Category 1 hurricane.
- Some additional strengthening is forecast during the next day or so and Katia could be near major hurricane strength at landfall in eastern Mexico tonight or early Saturday.
- 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 west-northwestward 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 and Hendry Counties.
- Hurricane Watches in effect for Lee, Charlotte, Sarasota, Manatee, Hardee, DeSoto, Highlands, Okeechobee, Martin, St. Lucie and Indian River Counties.
- Wind impacts to South Florida from Irma could occur as early as early Saturday morning, with the most likely timeframe for tropical storm force winds arriving Saturday afternoon. Hurricane force winds could arrive in Southeast Florida early Sunday morning.
- Storm Surge watches or warnings are in effect south of Sebastian Inlet on the East Coast and south of Venice on the West Coast. This includes all of the Florida Keys.
- 5-10' of storm surge is currently being forecasted by the Hurricane Center of South Florida and the Keys, with 3-6' possible for the Treasure Coast and Sun Coast.
- In addition, rainfall amounts could reach as high as 8-12" with isolated higher totals of 16" possible.
- Ocean swells from Irma have already reached South Florida and will produce a moderate to high risk of rip currents from today through the weekend.
- 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.

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



TROPICAL UPDATE

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State Meteorological Support Unit

Florida Division of Emergency Management

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