

TROPICAL UPDATE

5 AM EDT

Wednesday, September 6, 2017

Hurricane Irma, Tropical Storm Jose, and Tropical Storm 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 AM,EDT Wed Sep 06 2017 Position 17.9 N 62.6 W Maximum Winds 185 mph Gusts 225 mph Movement WNW at 16 mph Minimum Pressure 914 mb (26.98 inches)

1.

Blue Marble basemap imagery courtesy NASA

Satellite 9:47 AM UTC 5:47 AM EDT

wunderground.com



Hurricane IRMA Model Track Guidance

Initialized at 06z Sep 06 2017

35°N

Track guidance shifted east overnight, and many predict the center of Irma may remain off the Florida coast. However, there is still a great deal of uncertainty in these tracks and **regardless of path**, **impacts will be felt across much of the Florida Peninsula.**





Forecast cone + projected wind swath through 3 days. Hatched areas represent the probable size of the TS wind field based on all possible tracks within the forecast cone of error.



Mon 2AM 120mph SSCat 3 movg 8 mph



Earliest Reasonable Arrival Time of Tropical-Storm-Force Winds





Sea Surface Temperatures Near Irma



Category 4 Category 5 – Hurricane/Typhoon (w/category)

Hurricane IRMA Model Intensity Guidance

Initialized at 06z Sep 06 2017

Levi Cowan - tropicaltidbits.com



SLOSH <u>maximum</u> storm surge estimates Cat 4 moving N @10mph. Zoomable map

http://noaa.maps.arcgis.com/apps/MapSeries/index.html?appid=d9ed7904dbec441a9c4dd

7b277935fad&entry=1





7 Day Cumulative Rainfall Forecast (does not account for higher totals)



Tropical Storm Jose 5 AM EDT Wed Sep 06 2017 Position 12.5 N 42.8 W Maximum Winds 55 mph Gusts 70 mph Movement W at 12 mph Minimum Pressure 1 002 mb (29.58 in ches)

Blue Marble basemap imagery courtesy NASA

Satellite 9:47 AM UTC 5:47 AM EDT

wunderground.com

TROPICAL STORM JOSE (AL12)

Early-cycle track guidance initialized at 0600 UTC, 06 September 2017



Plot generated at 0921 UTC 06 September 2017

Tropical Storm JOSE Model Intensity Guidance Initialized at 06z Sep 06 2017 Models are in not good





Tropical Storm Katia 5 AM EDT Wed Sep 06 2017 Position 22.1 N 96.3 W Maximum Winds 40 mph Gusts 50 mph Movement ESE at 2 mph Minimum Pressure 1 006 mb (29.70 in ches)

Blue Marble basemap imagery courtesy NASA-

Sateline 9:47 AM UTC 5:47 AM BDT

wunderground.com



Tropical Storm KATIA Model Track Guidance



Tropical Storm KATIA Model Intensity Guidance Initialized at 06z Sep 06 2017



Steering Currents

KTS

100

20 15

10

Katia irma 5 High pressure in the central Atlantic will be the dominant contributor to Irma's and Jose's direction over the next 3 days. **ose** A large trough moving into the eastern U.S. will eventually turn Irma and Jose northward. Katia will be slow to move over the next couple of days, but will eventually move southwest as high pressure arrives in the area. CIMSS ENV STEERING PRODUCT: 400-850 HPA LAYER (FOR TC MSLP RANGE: 970-989 HPA) 0900 UTC 06SEP17

Current Wind Shear (Shaded) and Shear Tendency (Lines)



Summary

- At 5am EDT Wednesday, Hurricane Irma was located about 35 miles east-southeast of St. Martin in the northern Leeward Islands, or about 1,250 miles east-southeast of Miami.
- Maximum sustained winds remain near 185 mph with higher gusts, keeping Irma a category 5 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 is now moving toward the west-northwest near 16 mph, and this general motion is expected to continue for the next couple of days.
- On the forecast track, the extremely dangerous core of Irma will move over portions of the northern Leeward Islands this morning, near or over portions of the northern Virgin Islands later today, and pass near or just north of Puerto Rico this afternoon or tonight.
- The core of Irma is forecast to move between Hispaniola/Cuba and the Bahamas Thursday-Saturday, approaching South Florida and the Florida Keys by Sunday.
- Long-range models are predicting a northward turn to occur in about 4 days, but exactly when the turn occurs is still uncertain.
- At 5am EDT Wednesday, Tropical Storm Jose was located 1,255 miles east of the Windward Islands, which is about 2,600 miles southeast of Miami, Florida.
- Maximum sustained winds have increased to near 60mph, and Jose is likely to become a hurricane by tonight.
- Jose is expected to move west-northwest, approaching the northern Leeward Islands this weekend before turning northwest.
- Beyond 4 days, the track for Jose is also uncertain as some models predict the Jose could stall in the western Atlantic.
- Tropical Depression #13 was upgraded to Tropical Storm Katia at 5am EDT Wednesday.
- Katia is located in the southwestern Gulf of Mexico about 275 miles south-southeast of the U.S./Mexico border, or about 940 miles west-southwest of Key West, Florida.
- A slow southeast movement in the western Gulf of Mexico is expected over the next 2 days, eventually moving southwest and into eastern Mexico over the weekend.
- Maximum sustained winds are near 40mph. Some strengthening is expected during the next 48 hours, but Katia is likely to remain a tropical storm until landfall.

Florida Outlook

- Although computer models have shifted east, much of the Florida Peninsula lies within the NHC 5 day cone of error and could feel impacts from this system regardless of the eventual path.
- No watches or warnings are currently in effect, but could be issued as early as tonight for portions of South Florida.
- The chances for tropical storm and hurricane winds continue to increase for the Florida Peninsula.
- There is currently a 1 in 4 chance of hurricane force winds south of Lake Okeechobee within the next 5 days.
- It is important to note that the chances of hurricane force winds are nearly equal for both Southeast Florida and Southwest Florida.
- Wind impacts to South Florida from Irma could occur as early as Saturday morning, with the most likely timeframe for tropical storm force winds arriving Saturday evening.
- Although specifics on storm surge are not yet available, a storm of this size and intensity would have the ability to produce dangerous storm surge heights across portions of South Florida and the Florida Keys.
- In addition, rainfall amounts could reach as high as 8-15", but specifics on the location of high rainfall totals is still uncertain.
- Tropical Storm Jose does not pose a threat to Florida within the next 5-7 days, but should be monitored.
- Tropical Storm Katia does not pose a threat to Florida.

Another briefing packet will be issued Wednesday afternoon. 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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