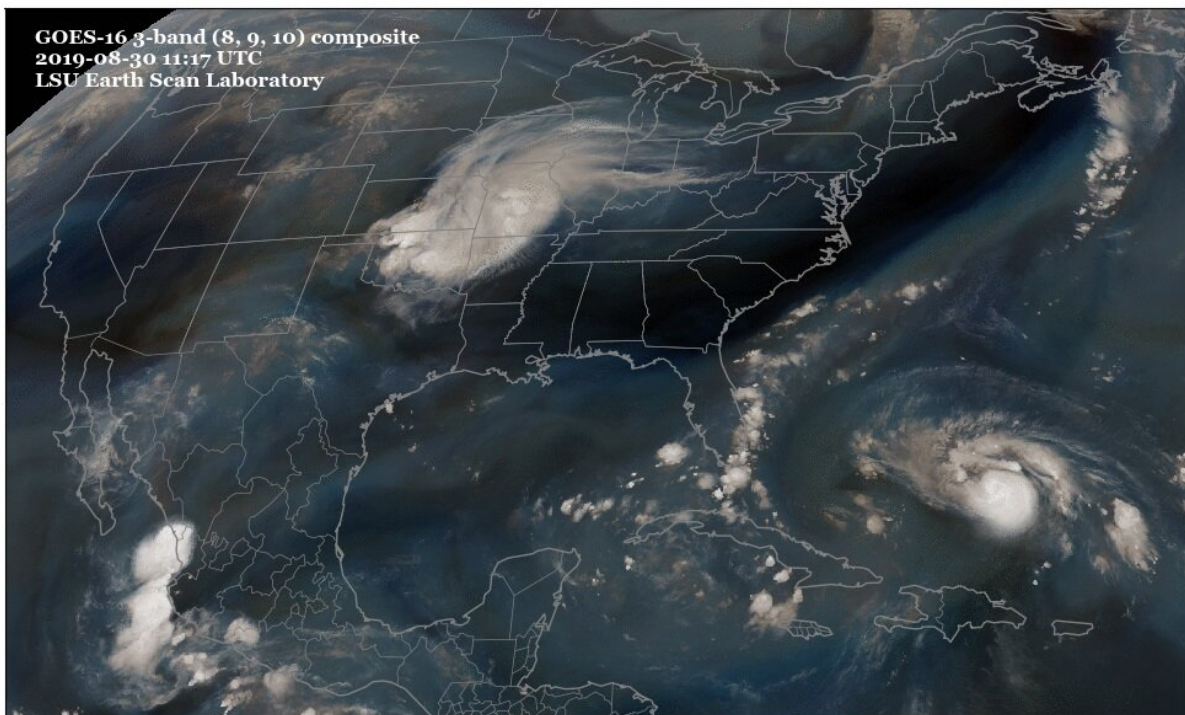


How hurricanes can affect weather after landfall

September 7 2019



A satellite image of Hurricane Dorian approaching Florida. Credit: Earth Scan Lab, LSU

After a hurricane has made landfall and moved through a community, it can affect the weather in the following weeks and months, said LSU

Department of Oceanography & Coastal Sciences Assistant Professor Paul Miller based on new research he conducted in the aftermath of Hurricane Maria in Puerto Rico.

Here are a few reasons why and how:

1. Humidity can decrease without leaves, which hold moisture.
2. Without the leaves and trees to "sweat," which cools the surface, the [air temperature](#) can rise.
3. Without tree foliage and vegetation to disperse a heavy rain, communities may be more prone to flash flooding in the days or weeks after a hurricane.
4. Additionally, the high discharges in rivers and streams leads to large sediment plumes in the ocean that muddy the water and may affect shrimpers, fisherman and the [seafood industry](#)

Miller's areas of expertise include coastal meteorology, hydroclimatology, weakly forced thunderstorms, land-atmosphere interactions and hazardous weather impacts. He is available for media interviews upon request.

More information: Paul Miller's Lab website: faculty.lsu.edu/paulmiller/.

Provided by Louisiana State University

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