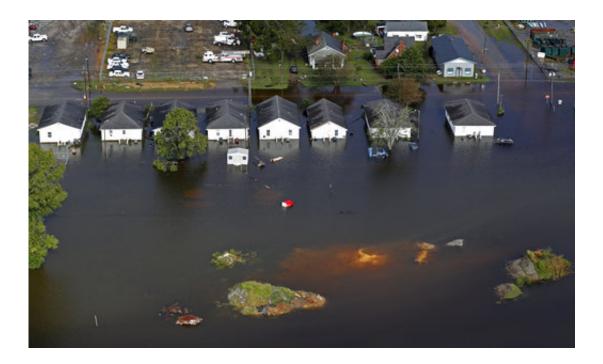


Florence is nation's second wettest storm, behind Harvey

September 25 2018, by Seth Borenstein



In this Monday, Sept. 17, 2018 file photo, floodwaters from Hurricane Florence surrounds homes in Dillon, S.C. Scientists say climate change likely boosted rainfall totals for both Florence and 2017's Harvey. (AP Photo/Gerald Herbert)

Hurricane Florence was the nation's second rainiest storm in 70 years, a top rainfall meteorologist calculated.

Only last year's Hurricane Harvey rained more over a 14,000 square mile (36,260 square kilometers) area during a four-day time period, said Ken Kunkel, a meteorologist at the National Oceanic Atmospheric



Administration and North Carolina State University.

Scientists said climate change likely boosted <u>rainfall</u> totals for both storms.

Kunkel's preliminary analysis found more than 17.5 inches (0.4 meters) fell on average over five weather stations in the 14,000 square miles of the eastern Carolinas stretching from Fayetteville, North Carolina, to Florence, South Carolina. The amount is second to Harvey's 25.6 inches (0.6 meters).

"That's a lot of water," Kunkel said.

The third rainiest <u>storm</u> was in March 2016 in northern Louisiana and the seventh was in southern Louisiana in August 2016. The three rainiest and four of the top seven have all occurred in the last three years—which Kunkel said is no coincidence.

Kunkel, who specializes in analyzing rain data from thousands of weather stations, based his work on rainfall since 1949 when recording became more widespread across the continental United States.

Kunkel examined rainfall over a compact area—14,000 square miles, a figure based on latitude and longitude squares—and larger <u>areas</u> such as 20,000, 30,000 and 80,000 square miles. Florence's unusual amount was most noticeable on the smallest scale.

When the scientist looked at a bigger area, 20,000 <u>square</u> miles, Florence fell to seventh place, behind Harvey, 1998's Hurricane Georges, the two Louisiana rainstorms, a 1962 northern California downpour and a 1994 Texas drenching.

The analysis has not been published or peer reviewed yet, but will be,



Kunkel said.

It is "not surprising—but still terrifying—that the two top ranked soakers happened over the past two years," said Pennsylvania State University climate scientist Michael Mann, who wasn't part of Kunkel's research but praised it. He said warmer oceans, more moisture and slower moving storms due in various ways to climate change make storms dump more rain.

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