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Apache native Holland measuring emissions now on Mount Kilauea

When she was eight years old, She told her daddy, "I want to study volcanoes."

Her wish has come true. Dr. Lacey Holland of Honolulu, Hawai'i is measuring and studying the volcanic emissions from Kilauea on the island of Hawai'i.

Dr. Holland is a post-doctoral fellow at the University of Hawaii at Manoa's Department of Atmos-

pheric Sciences. She is also a native of Apache, Oklahoma. She is a graduate of the [Oklahoma School of Science](#) and Mathematics and the University of Utah. She is the daughter of Paula and Kenneth Holland of Apache.

This morning, Dr. Holland reported 2,500 tons of emissions were released into the atmosphere daily before this month's volcanic activity. But, since May 3, Holland said between 35,000 and 40,000 tons have been released.

Holland was awarded her Ph.D in atmospheric science on the same day, May 3, 2018. Dr. Holland accepted the post-doctoral post at the University of Hawai'i-Manoa and was assigned to Kilauea where she monitors emissions which affect air quality.

"Here we've got like 15-20 times the amount of normal emissions, so even though the concentrations do drop off really quickly when you're away from the main area, there's just a sheer number of vog-related molecules in the air — still causes the air quality to be much worse," Holland said.

Concentration fluctuation has to do with weather patterns.

She explained, "Small shift in wind direction or speed can cause very different outcomes whenever it comes to the concentrations of sulfur dioxide or sulfate aerosols that you see in the air," Holland said.

The closure of the main area of Hawaii Volcanoes National Park has prompted more people to visit the less-frequented Kahuku Unit, leading to more resources being directed into that area.

Most of the Big Island park closed in May because of the Kilauea volcano eruption, so officials extended the operating hours of the Kahuku Unit to five days each week, the Hawaii Tribune-Herald reported Thursday.

About 350 people visited the unit in April before the eruption, according to the park. Nearly 4,500 people visited it in June.

"It's actually nice because people are coming in not expecting to see lava," Kahuku area manager Keola Awong said. "They're just coming because they want to see the park."

More resources have been directed for maintenance and other projects as a result of the higher visitation. The park has repaired and widened sections of the road leading into the area. It has removed brush from the roadsides and improved ditches. It has installed new gates at park entrances and new wheelchair-accessible ramps at park facilities.

A new trail opened and another one is in development, Awong said. The park hopes to complete a walking trail to the Forested Pit Crater by mid-September, she said.

Park officials have discussed opening the unit for seven days each week, but such a change will not occur anytime soon, if it's decided, parks spokeswoman Jessica Ferracane said.

nonesuch named to the Hot 10

OKLAHOMA CITY — Bon Ap t t's 'Hot 10' list for 2018 includes the Oklahoma City eatery *nonesuch*, honored as the best new restaurant in the United States.

nonesuch owner Todd Woodruff is a native of Carnegie and the son of Carnegie residents Gary and Leslie Woodruff.

Located at 803 N. Hudson in OKC Midtown, *nonesuch* is part of the Day One Concepts company, founded by Woodruff, and three chefs — Colin Stringer, Jeremy Wolfe and Paul Frank Wang.

Woodruff also owns Hospitality One, Waffle Champion and Butter-milk and is readying a new restaurant with a barbecue menu.

nonesuch offers a seasonal 10-course tasting menu four nights a week with three young chefs who are all in their 20s.

Reservations are required.

Legendary food writer Andrew Knowlton bestowed the honor on *nonesuch*. The menu is not only seasonal, but very often derived from goods farmed by the chefs. Dinner is served in a 10-course tasting menu with chefs serving the table and remaining to answer questions.

Oil production expands in state

WOODWARD, Okla. (AP) — Oil production continues to expand throughout Oklahoma, including in areas outside the state's two core fields.

The Oklahoman reports that the STACK and SCOOP fields are dominated by larger, independent oil companies that include Continental Resources Inc., Devon Energy Corp. and Newfield Exploration.

But smaller, private companies report strong results in other parts of the state, such as the Merge between STACK and SCOOP, the Anadarko Basin in western Oklahoma, and the Arkoma Stack in southeast Oklahoma.

Operators say the state's oil fields have the benefit of being near several pipelines, storage facilities, processing plants and refineries. But Oklahoma's production prices have been discounted as local producers face a higher transportation costs.