



# Air, Climate, and Energy Research News

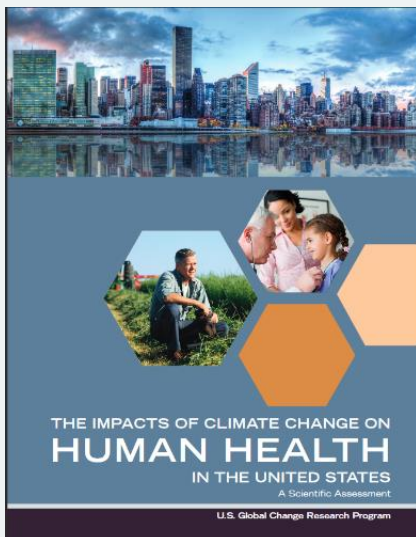
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April 2016

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Celebrate Earth Day by learning about research to protect our health and the environment!

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## Climate-health connections report released

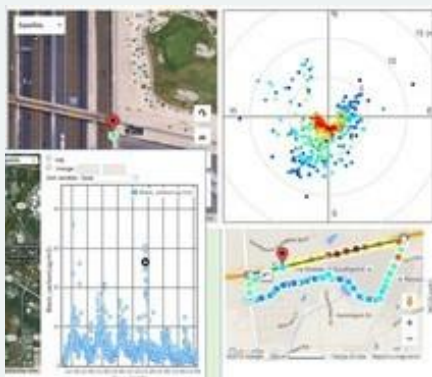
Climate change is a significant threat to the health of the American people. This scientific assessment by the United States Global Climate Change Research Program examines how climate change is already affecting human health and the changes that may occur in the future. EPA researchers contributed to the report.

[Read the report](#)

[Read a White House fact sheet on the report](#)

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## RETIGO upgrade and training webinar available



Learn about a new upgraded tool called RETIGO (Real Time Geospatial Data Viewer) that makes mapping air quality data easy.

The program is publicly available and designed to be easy to use by both professional researchers and citizen scientists. Learn more at a free training webinar at 4 p.m. EDT on May 17.

To register for training, contact [retigo@epa.gov](mailto:retigo@epa.gov).

Learn more about RETIGO:

[RETIGO web page](#)

[RETIGO fact sheet](#)

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### **Sensor technology for small businesses website launched**

Sensor developers can now locate funding opportunities across federal agencies to commercialize their research through the [Small Business Innovation Research \(SBIR\) website](#).

View these opportunities on SBIR's [Sensor Technology for the 21st Century web page](#).

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### **Protecting air quality in a changing climate grants**



EPA announced \$8.5 million in research funding to 12 universities to address current and future challenges to protecting air quality from the impacts of climate change. Grant projects will address wildfires, atmospheric chemistry, dust, drought, land-use change, and the impacts of increased nitrogen-based fertilizer use on air quality.

[Read an EPA press release on the grants.](#)

[Learn more about the projects on EPA's research grants web page.](#)

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### **Novel approaches developed to detect methane leaks**



In a recent paper, EPA scientists and collaborators present novel approaches to identify and locate methane leaks at natural gas production wells and pipelines using mobile sensors. In the future, methane sensors can be installed on work trucks or other vehicles that collect data along a route near the source. The data is then pushed to a cloud server using an algorithm method that generates real-time information on leaks. When leaks exceed a predetermined limit, the system triggers an alert. The goal of the research is to provide precision leak surveillance of well pads and also routine monitoring for leaks during regular operation and maintenance.

The article, [A Mobile Sensing Approach for Regional Surveillance of Fugitive Methane Emissions in Oil and Gas Production](#), is published in *Environmental Science & Technology*.

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### **New tools to monitor local air quality**



Chicago's Village Green air monitoring system, the first to be installed at a school by EPA, will provide opportunities for teachers, students, and parents to learn more about air quality. The monitoring system, built into a bench, is located at Jane Addams Elementary School. A ribbon-cutting ceremony was held April 13.

Students at the school will learn about air quality through new classroom lesson plans tailored for use with the bench and will test five new portable air sensor devices called AirMappers developed by EPA researchers for educational outreach.

[Read a fact sheet on Chicago's Village Green Station and AirMapper.](#)

[Visit the Village Green web page.](#)

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### **EPA researcher investigates link between fish oil and air pollution**

Samantha Snow received the Women in Toxicology's Postdoctoral Achievement Award from the Society of Toxicology for her research and leadership. She is using animal models to investigate the potential link between fish oil and how the body handles air pollution exposure.

[Read a blog on her research.](#)

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### **Science Bite Podcasts**

Science Bite is a podcast series that describes the role EPA plays in advancing scientific research.

Listen to the most recent podcast:

[Doing it for the Kids: Engaging Students on Energy and Climate Change](#)

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## Key Links

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- [EPA's Air Research](#)
- [EPA's Climate Change Research](#)
- [EPA's Air, Climate, and Energy Research News – Past Issues](#)
  
- [Air-related blogs](#)
- [Climate-related blogs](#)