

Thousands of green jobs.

ENN User Survey is Running Now

TOP STORIES WILDLIFE AGRICULTURE ECOSYSTEMS ENERGY BUSINESS CLIMATE search »
POLLUTION GREEN BUILDING

SCI/TECH LIFESTYLE HEALTH

Where am I? > [Home](#) > [Climate](#) > [Soil Production of CO2 May Decline As World Warms](#)

[Printer Friendly Version](#) [Email to a Friend](#)

[ShareThis](#)

From: [Yale Environment 360](#)
Published [April 27, 2010 08:02 AM](#)

Soil Production of CO2 May Decline As World Warms

Contradicting earlier studies showing that soil microbes will emit more [carbon](#) dioxide as global warming intensifies, new research suggests that these microbes become less efficient over time in a warmer environment and would actually emit less CO₂. The research, published in the journal *Nature Geoscience*, could have important implications for calculating how much [heat](#)-trapping CO₂ will accumulate in the atmosphere as temperatures rise.

Researchers from the University of California, Irvine, as well as Colorado State and Yale universities, found that soil microbes, in the form of bacteria and fungi, rapidly exhale CO₂ for a short period of time in a warmer environment. But as higher temperatures persist, the microbes begin to use carbon less efficiently in their respiration process, which causes the microbes to decrease in number and emit less CO₂ into the atmosphere.

"Microbes aren't the destructive agents of global warming that scientists had previously believed," said the study's lead author, Steve Allison of UC Irvine. But Allison and his co-authors cautioned that further study is necessary to determine how soil enzymes might evolve as temperatures rise, which could affect the carbon balance in soils.

For more information: <http://e360.yale.edu/content/digest.msp?id=2386>

<http://www.nature.com/ngeo/journal/vaop/ncurrent/abs/ngeo846.html>

[ShareThis](#)

RELATED ARTICLES

[Geologist Connects Regular Changes of Earth's Orbital Cycle to Changes in Climate](#)

April 9, 2010 08:59 AM

[Climate change could impact vital functions of microbes](#)

June 3, 2008 09:12 AM

[Northern plants 'losing carbon' due to warming](#)

January 5, 2008 04:05 PM

[Evidence of Rapid Sea Rise Found in Coastal Cave in Mediterranean](#)

February 13, 2010 10:22 AM



SIGN UP

Stay updated with the ENN RSS feeds

[twitter](#) ENN Twitter

ENN MEMBERS

- » [Our Editorial Affiliate Network](#)
- » [Our Press Members](#)
- » [Partner Sites](#)

PRODUCTS & SERVICES

- » [Submit a Press Release](#)
- » [Contribute to ENN](#)

ADVERTISE WITH ENN

- » [Why Advertise with ENN](#)
- » [Contact ENN Sales Team](#)

ENN ARCHIVES

- » [News Archive](#)

ABOUT ENN

- » [History](#)
- » [Mission Statement](#)
- » [Our Staff](#)
- » [Editorial Philosophy](#)
- » [Contact ENN](#)
- » [ENN Terms](#)
- » [Fair Use Notice](#)

IzzitGreen

View all the featured contributing content by this source

PRESS ALERTS

Get the latest releases from the world's leading environmental businesses and nonprofits

SIGN UP

[Lnoppen](#)

China Bioenergy Technology and Investment Summit

May 20th-21st 2010
[Kempinski Hotel]
Shenyang, China

For further information
Catriona Scanlon
Tel: 8621 6085 1000
Fax: 8621 6192 1908
catrionas@noppn.com.cn
www.noppn.com.cn

