



Lower Back Pain?

spider tech

www.nucanmedical.com/spidertech

Pre-cut, Pre-Packaged
Kinesiology Taping Solutions

Learn More

Arts by Google

Science News

[Share](#) [Blog](#) [Cite](#) [Print](#) [Email](#) [Bookmark](#)

Air Traffic Poised to Become a Major Factor in Global Warming, Scientists Predict

ScienceDaily (May 31, 2010) — The first new projections of future aircraft emissions in 10 years predict that carbon dioxide and other gases from air traffic will become a significant source of global warming as they double or triple by 2050.

See Also:

Matter & Energy

- [Transportation Science](#)
- [Aviation](#)

Earth & Climate

- [Global Warming](#)
- [Environmental Issues](#)

Science & Society

- [Environmental Policies](#)
- [Transportation Issues](#)

Reference

- [Automobile emissions control](#)
- [Consensus of scientists regarding global warming](#)
- [Fossil fuel](#)
- [Combustion](#)

The study is in ACS' *Environmental Science & Technology*, a semi-monthly journal.

Bethan Owen and colleagues note that aviation is not now one of the main drivers of global warming, with international aviation (source of 60 percent of carbon dioxide emissions from aircraft) not even included in the Kyoto Protocol. Global air traffic currently contributes to between 2 and 3 percent of carbon dioxide emissions -- the main "greenhouse" gas linked to global warming.

The scientists' computer model forecast that emissions of carbon dioxide will likely double or triple within the next 50 years. By 2100, carbon dioxide emissions could increase by up to seven times the current levels, they say.

"Even though there have been significant improvements in fuel efficiency through aircraft technology and operational management, this has been outweighed by the

increase in air traffic," the study states.

Email or share this story: [More](#)

Story Source:

The above story is reprinted (with editorial adaptations by ScienceDaily staff) from materials provided by [American Chemical Society](#), via [EurekAlert!](#), a service of AAAS.

Journal Reference:

1. Bethan Owen, David S. Lee, Ling Lim. **Flying into the Future: Aviation Emissions Scenarios to 2050.** *Environmental Science & Technology*, 2010; 44 (7): 2255 DOI: [10.1021/es902530z](#)

Need to cite this story in your essay, paper, or report? Use one of the following formats:

- **APA** American Chemical Society (2010, May 31). Air traffic poised to become a major factor in global warming, scientists predict. *ScienceDaily*. Retrieved August 23, 2010, from <http://www.sciencedaily.com/releases/2010/05/100526124715.htm>
- **MLA**

Note: If no author is given, the source is cited instead.



Airplanes, a source of carbon dioxide emissions, are poised to become a major factor in global warming in the future, according to new predictions. (Credit: iStockphoto/Ramon Berk)

Ads by Google

Environmental Degree

Earn an environmental science degree. 100% online courses. www.apus.edu

Free Green Home Tips

Free tips, tools and expert advice. Save energy and go green. www.Ennovationz.com

Rain Forest Mapping

Software for Mapping and Managing REDD Forest Projects. Free Trial. ClarkLabs.org/Applications/REDD

Airport Transportation

Providence & Boston Airports Professional Service 401-270-9997 Car1transportation.com

Related Stories

Carbon Emissions Linked To Global Warming In Simple Linear Relationship (June 11, 2009) —

Scientists have found a direct relationship between carbon dioxide emissions and global warming. Researchers used a combination of global climate models and historical climate data to show that there ... > [read more](#)



Rising Surface Ozone Reduces Plant Growth And Adds To Global Warming (July 27, 2007) —

Scientists have just released new findings that could have major implications for food production and global warming in the 21st century. Researchers have found that projections of increasing ozone ... > [read more](#)

Trapping Carbon Dioxide Or Switching To Nuclear Power Not Enough To Solve Global Warming Problem, Experts Say (July 13, 2009) —

Attempting to tackle climate change by trapping carbon dioxide or switching to nuclear power will not solve the problem of global warming, according to new energy calculations. Scientists have ... > [read more](#)



Amplification of Global Warming by Carbon-Cycle Feedback Significantly Less Than Thought, Study Suggests

Just In:
Planet Dust May Lie Around Double Stars

Science Video News



Possible Fix For Global Warming?

Engineers have designed a simple, sustainable and natural carbon sequestration solution using algae. A team at Ohio University created a

photo. ... > [full story](#)

Meteorologists Find That Increased Ocean Temperatures Cause Increasingly Intense Hurricanes

Atmospheric Scientists Monitor Global Carbon
Climatologists Forecast Completely New Climates

[more science videos](#)

Neck Pain?

Pre-cut, Pre-Packaged
Kinesiology Taping Solutions

spider tech Learn More

www.nucanmedical.com/spidertech Arts by Google

Breaking News

... from NewsDaily.com

Drugs protect monkeys from Ebola, U.S. study finds



Private spaceship carrier plane damaged in test

U.S. tries to fix slow response to outbreaks

Titanic to come to 3D life in scientific expedition

Scientists suggest fresh look at psychedelic drugs

[more science news](#)

In Other News ...

Chile secures lifeline to trapped miners, sends aid

Scandal-hit Tiger Woods and wife divorce

Pakistan starts IMF talks, seeks help from floods

Fed loses bid to review bailout disclosure ruling

Search ScienceDaily

Number of stories in archives:
90,242

(Jan. 28, 2010) — A new estimate of the feedback between temperature and atmospheric carbon dioxide concentration has been derived from a comprehensive comparison of temperature and CO₂ records spanning the ... > [read more](#)

[HP sparks bidding war with Dell over 3PAR](#)

[U.S. drone strike kills 20 people in Pakistan](#)

[U.S. Drone strike kills 20 people in Pakistan](#)

[Gunman, eight hostages killed in Manila bus siege](#)

[more top news](#)

- News
- Articles
- Videos
- Images
- Books

- [Health & Medicine](#)
- [Mind & Brain](#)
- [Plants & Animals](#)
- [Earth & Space](#)
- [Space & Time](#)
- [Matter & Energy](#)
- [Computers & Math](#)
- [Fossils & Ruins](#)

Ads by Google

What Is Global Warming?
Is It All A Hoax?
Find Out At National Geographic
[NationalGeographic.com](#)



Find with keyword(s):

Enter a keyword or phrase to search ScienceDaily's archives for related news topics, the latest news stories, reference articles, science videos, images, and books.

[About ScienceDaily®](#) | [Editorial Staff](#) | [Awards & Reviews](#) | [Contribute News](#) | [Advertise With Us](#) | [Privacy Policy](#) | [Terms of Use](#)
Copyright © 1995-2010 ScienceDaily LLC — All rights reserved — Contact: editor@sciencedaily.com
Part of the iVillage Your Total Health Network

Copyright Reuters 2008. See [Restrictions](#).

Free Subscriptions ... from ScienceDaily

Get the latest science news with our free email newsletters, updated daily and weekly. Or view hourly updated newsfeeds in your RSS reader:

- [Email Newsletters](#)
- [RSS Newsfeeds](#)

Feedback ... we want to hear from you!

Tell us what you think of the new ScienceDaily -- we welcome both positive and negative comments. Have any problems using the site? Questions?

Your Name:

Your Email:

Comments:

Click button to submit feedback: