Huge spike in global carbon emissions linked to El Nino | AFP.com



News

Huge spike in global carbon emissions linked to El Nino

13 Oct 2017



Tweet

0

G+

0

Share

Like



The global network of Agence France Presse covers 151 countries

AFP's worldwide

network

Find out more

Find out more

Contact us

If you have **news to share or a question**, **comment or suggestion**, contact us via...

MAIL	FACEBOOK	TWITTER

temperat	ture and air pressure in the	tropical Pacific Ocear	n to fluctuate, an
https://www.afp.com/en/news/2265/h	huge-spike-global-carbon-	-emissions-linked-el	-nino

Huge spike in global carbon emissions linked to El Nino | AFP.com

years at a time -- might wield an influence on the balance of carbon in the atmosphere.



AFP/File / MOHD RASFAN

An April 2016 heatwave brought on by the El Nino weather phenomenon severely affected food production and caused chronic water shortages in many countries

This cycle, coupled with the continual emissions from fossil fuel burning over China, Europe and the southeast United States, means carbon levels reach a seasonal high in April in the northern

Then, as spring gets under way and summer approaches, plants begin to soak

But 28 months of data from a NASA satellite -- called the Orbiting Carbon Observatory-2 (OCO-2) and launched in 2014 -- have clarified its role.

The satellite's mission is to examine how carbon dioxide moves across the Earth and how it changes over time.

Scientists compared 2015-16 data from the NASA satellite in recent years to 2011 data from the Japan Aerospace Exploration Agency's Greenhouse Gases Observing Satellite (GOSAT), because 2011 was a normal year, weather-wise, with no El Nino.

Since climate change is expected to bring less rain to South America and higher temperatures to Africa by the end of the century, researchers warn the trend will get worse in the tropics, which have traditionally served as a buffer for fossil fuel emissions because they absorb so much carbon.

"If future climate brings more or longer droughts, as the last El Nino did, more carbon dioxide may remain in the atmosphere, leading to a tendency to further warm Earth," said OCO-2 deputy project scientist Annmarie Eldering of NASA's Jet Propulsion Laboratory.

Another study that was part of a collection of five on the topic in Science, found "striking" seasonal changes in the carbon cycle across the Northern Hemisphere.

"In the spring there's a dramatic uptake of carbon by terrestrial plants," said the paper.

"During the winter, however, carbon uptake by plants is minimal, while the breakdown or decay of plant material feeds carbon back into the atmosphere."



AFP/File / PHILIPPE DESMAZES

Researchers found seasonal changes in the carbon cycle across the Northern Hemisphere, concluding that s spring gets under way and summer approaches, plants begin to soak up more carbon again

PREVIOUS

BACK TO SUMMARY



SUBSIDIARIES

hemisphere, it said.

up more carbon again.

AFP GMBH

SPORT INFORMATIONS DIENST

Useful links

Site Map

Contact us

Terms of use

Neighbouring rights of news agencies

AFP-SERVICES

Our Blog

Correspondent

About AFP

AFP is a global news agency delivering fast, accurate, in-depth coverage of the events shaping our world from conflicts to politics, economics, sports, entertainment and the latest

https://www.afp.com/en/news/2265/huge-spike-global-carbon-emissions-linked-el-nino

2/3

Huge spike in global carbon emissions linked to El Nino | AFP.com

breakthroughs in health, science and technology.

Partners



News Fie