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Amazon "flips" to be source of CO2 emissions

17th July, 2021



Environmental scientists have revealed shocking news that parts of the Amazon rainforest are emitting more carbon dioxide than they are absorbing. The scientists said the forest is now producing over a billion tons of CO2 a year. They say the Amazon used to

be a carbon "sink". This is where CO2 was sucked up and converted into oxygen. However, it has now become a source of carbon dioxide. The forest is at risk of losing its moniker of being the lungs of the world. Researchers are predicting the rainforest will create more CO2 at an accelerating rate in the future. The biggest culprits for the Amazon's flipping from sink to source are logging, deforestation and a growing number of forest fires.

The research on the Amazon's CO2 emissions has been published in the journal "Nature". Researchers analysed 600 profiles of CO2 and carbon monoxide emissions produced by fires at various sites in Brazil's Amazon between 2010 and 2018. They found that the fires produced about 1.5 billion tons of CO2 a year, while forest growth removed just 0.5 billion tons. The researchers said the difference of one billion tons left in the atmosphere is equivalent to the annual emissions of Japan, which is the world's fifth-largest polluter. Professor Simon Lewis, from University College London, said: "The southeast Amazon sink-to-source story is yet another warning that climate impacts accelerating."

Sources:

theguardian.com / usatoday.com / commondreams.org

Writing

All logging should stop for 10 years. Discuss.

Chat

Talk about these words from the article.

environmental / scientists / carbon dioxide / sink / lungs / rainforest / forest fires / research / profiles / emissions / atmosphere / annual / polluter / climate / impacts

True / False

- The article says scientists revealed earthshattering news. T / F
- 2) Parts of the Amazon produce over a billion tons of CO2. T / F
- 3) The Amazon has lost its nickname of being the "lungs of the world". T / F
- 4) The article says agriculture is the biggest culprit in flipping the Amazon. T / F
- 5) The research is published in a journal called "Nature". T / F
- Forest fires produced around 1.5 billion tons of CO2 a year. T / F
- Japan is the fifth-largest polluter in the world.T / F
- A professor said the sink-to-source story was a stark warning. T / F

Synonym Match

(The words in **bold** are from the news article.)

_	_	_	_
4		1-	
1.	en/	7 <i>C</i> K	ina

2. emitting

3. converted

4. predicting

5. culprits

6. profiles

7. various

8. equivalent

9. stark

10. accelerating

a. assorted

b. forecasting

c. offenders

d. bleak

e. appalling

f. identical

g. accounts

h. releasing

i. gaining momentum

j. changed

Discussion - Student A

- a) How important is the Amazon rainforest?
- b) Why does the world just sit and watch the destruction of the Amazon?
- c) How dangerous is CO2?
- d) What are the dangers of the Amazon flipping?
- e) What stresses do you think environmental scientists have?
- f) How worried are you about the loss of rainforest?
- g) What three adjectives best describe this story?
- h) What advice do you have for loggers in the Amazon?

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Phrase Match

- scientists have revealed
- 2. emitting more
- 3. producing over
- 4. the lungs
- 5. a growing number
- published in the
- 7. forest
- 8. equivalent to the annual
- 9. the world's fifth-
- 10. yet another stark

Discussion - Student B

- What do you think about what you read?
- Should we all read the journal 'Nature'? b)
- Is it possible to return forests to their original states?
- What is your country doing to reduce CO2 d) emissions?
- What are you doing to reduce CO2 emissions? e)
- What will the environment be like in 100 years from now?
- Do you think governments will heed this latest warning?
- What questions would you like to ask the researchers?

Spelling

- 1. reedalve shocking news
- 2. mntigeti more carbon
- 3. they are bbngoisra
- 4. veeocdrnt into oxygen
- 5. at an atlcecrnaieg rate
- oetestriafodn and a growing number of 6. forest fires
- 7. carbon oxdomeni
- 8. fires at ouisvra sites
- 9. one billion tons left in the etosamhepr
- 10. ivegenulta to the annual...
- 11. the world's fifth-largest euloprtl
- 12. climate satcimp

Answers - Synonym Match

1. e	2. h	3. j	4. b	5. c
6. g	7. a	8. f	9. d	10. i

- a billion tons
- emissions of Japan
- of forest fires
- d. journal "Nature"
- carbon dioxide
- warning
- shocking news
- largest polluter h.
- of the world
- growth

Role Play

Role A - Becoming Vegetarian

You think becoming vegetarian is the best way to reduce your carbon footprint. Tell the others three reasons why. Tell them what is wrong with their ways. Also, tell the others which is the least useful of these (and why): not buying fast fashion, cycling more or switching lights off.

Role B - Not Buying Fast Fashion

You think not buying fast fashion is the best way to reduce your carbon footprint. Tell the others three reasons why. Tell them what is wrong with their ways. Also, tell the others which is the least useful of these (and why): becoming vegetarian, cycling more or switching lights off.

Role C - Cycling More

You think cycling more is the best way to reduce your carbon footprint. Tell the others three reasons why. Tell them what is wrong with their ways. Also, tell the others which is the least useful of these (and why): not buying fast fashion, becoming vegetarian or switching lights off.

Role D - Switching Lights Off

You think getting switching lights off is the best way to reduce your carbon footprint. Tell the others three reasons why. Tell them what is wrong with their ways. Also, tell the others which is the least useful of these (and why): not buying fast fashion, cycling more or becoming vegetarian.

Speaking - Carbon Footprint

Rank these ways of reducing your carbon footprint with your partner. Put the best at the top. Change partners often and share your rankings.

- Cycle more
- Becoming vegetarian
- Get politically active Don't buy fast fashion
- Switch lights off
- Reusable shopping bags
- Compost food waste
 Use less water

Answers - True False

1	F	2	Т	3	F	4	F	5	Τ	6	Т	7	Т	8	Т

Answers to Phrase Match and Spelling are in the text.