



## Surprising Impact: Cleaner Air Speeding Up Global Warming?

### Description

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Air pollution can have a cooling effect on the climate

Cheunghyo/Getty Images

In recent years, there has been a growing concern about the impact of declining air pollution on the climate. Climate scientist James Hansen, famous for his early warnings about global warming, has highlighted the unintended consequences of using aerosols to counteract greenhouse gas warming.

Hansen's latest research suggests that the reduction in air pollution may be contributing to accelerated global warming. Recent spikes in global temperatures have raised questions about the factors driving this increase.

Hansen and his team believe that a decrease in air pollution, particularly from shipping, has contributed significantly to the recent temperature rise. They estimate that the reduction in aerosols from shipping has led to an increase in the heat reaching Earth, potentially masking the full impact of greenhouse gases.

This new information suggests that the climate may be more sensitive to greenhouse gas emissions than previously thought, emphasizing the need for urgent action to address climate change.

Further research is needed to fully understand the complex relationship between air pollution, aerosols, and global warming.

Topics: Climate Change, Global Warming, Air Pollution

## Vocabulary List:

1. **Pollution** /pəˈluːʃən/ (noun): The presence of harmful substances in the environment.
2. **Accelerated** /əkˈsɛləˌreɪtɪd/ (adjective): Increased in speed or rate.
3. **Aerosols** /ˈɛərəʊsɔːlz/ (noun): Tiny solid or liquid particles suspended in the air.
4. **Consequences** /ˈkɒnsɪkwənsɪz/ (noun): Results or effects of an action or decision.
5. **Emissions** /ɪˈmɪʃənz/ (noun): The release of gases or substances into the atmosphere.
6. **Sensitive** /ˈsɛnsɪtɪv/ (adjective): Easily affected or responsive to external factors.

## Vocabulary quizzes

### Multiple Choice ( Select the Correct answer for each question. )

1. What is the probability of an event happening called?

Option: Risk



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- Option: Governance  
Option: Association  
Option: Consumption
2. What are used to indicate a particular condition or feature?  
Option: Vulnerabilities  
Option: Markers  
Option: Biodegrade  
Option: Encrypted
3. What is working jointly with others to achieve a common goal?  
Option: Innovation  
Option: Agreement  
Option: Collaboration  
Option: Surveillance
4. What is the introduction of contaminants into the natural environment causing adverse change?  
Option: Pollution  
Option: Aerosols  
Option: Consequences  
Option: Sensistive
5. Which substances are used in aerosol cans for spraying?  
Option: Ethical  
Option: Acceleration  
Option: Aerosols  
Option: Compromise
6. What kind of consequence is the opposite of gain?  
Option: Development  
Option: Loss  
Option: Resistance  
Option: Manipulated
7. In what form can data be secured from unauthorized access?  
Option: Encrypted  
Option: Synthetic  
Option: Celulose  
Option: Gelatin
8. What is the refusal to accept or comply with something?  
Option: Vulnerabilities  
Option: Resistance



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Option: Marked

Option: Consumption

9. Which term refers to weaknesses that can be exploited by threats?

Option: Innovation

Option: Vulnerabilities

Option: Surveillance

Option: Debate

10. What is the act of using something up or eating or drinking?

Option: Consumption

Option: Legitimate

Option: Risk

Option: Association

**Gap-Fill ( Fill in the blanks with the correct word from the vocabulary list. )**

11. \_\_\_\_\_ is the process of growth or advancement.

12. A thorough examination or study of a situation is called \_\_\_\_\_.

13. The way in which rules norms and actions are structured sustained regulated and held accountable is known as \_\_\_\_\_.

14. Moral principles that govern a person's behavior or the conducting of an activity is said to be \_\_\_\_\_.

15. A mutual understanding or arrangement among two or more parties is an \_\_\_\_\_.

16. The process by which organic substances are broken down by natural organisms is called \_\_\_\_\_.

17. An agreement or settlement of a dispute that is reached by each side making concessions is a \_\_\_\_\_.

18. Something that is lawful reasonable or socially acceptable is considered \_\_\_\_\_.



19. The introduction of new ideas methods or products is referred to as \_\_\_\_\_ .
20. Having a noticeable distinct or significant characteristic is described as \_\_\_\_\_ .

**Matching Sentences ( Match each definition to the correct word from the vocabulary list. )**

21. The likelihood of an event resulting in harm danger or loss is known as .
22. The connection or link between two or more things is referred to as .
23. Close observation of a person or group especially one under suspicion is known as .
24. A formal discussion on a particular topic in a public meeting or legislative assembly is called a .
25. The increase in speed or rate of something is called .
26. Easily affected changed or damaged by external conditions feelings or circumstances is described as .
27. The result or effect of an action or condition is known as .
28. The production and discharge of something especially gas or radiation is called .
29. To handle or control in a skillful manner often for dishonest purposes is to .
30. Conforming to accepted standards of conduct or morals is being .

## Answer

**Multiple Choice:** 1. Risk 2. Markers 3. Collaboration 4. Pollution 5. Aerosols 6. Loss 7. Encrypted 8. Resistance 9. Vulnerabilities 10. Consumption

**Gap-Fill:** 11. Development 12. Investigation 13. Governance 14. Ethical 15. Agreement 16. Biodegrade 17. Compromise 18. Legitimate 19. Innovation 20. Marked

**Matching sentence:** 1. Risk 2. Association 3. Surveillance 4. Debate 5. Acceleration 6. Sensitive 7. Consequences 8. Emissions 9. Manipulated 10. Ethical

## CATEGORY

1. Sci/Tech - LEVEL3

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