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Level 6 – 6th June, 2020

Scientists discover the world's cleanest air

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<https://breakingnewsenglish.com/2006/200606-clean-air.html>

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Please try Levels 4 and 5 (they are easier).

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THE ARTICLE

From <https://breakingnewsenglish.com/2006/200606-clean-air.html>

Scientists have discovered what they believe to be the cleanest air on Earth. Researchers from Colorado State University and the Australian Bureau of Meteorology conducted research on the purity of the air above Antarctica. They found a region over the Southern Ocean, between the south of Australia and Antarctica, that was "unaffected" by human activity. The scientists said the area they researched formed the atmosphere in the lower clouds. The analysis of the air showed that it was totally free from "anthropogenic aerosols". These are pollutants or particles derived from human activity, or dust from other continents. The scientists called this pollution-free area, "truly pristine".

The scientists analysed the structure of airborne microbes in the lower clouds over the Southern Ocean. They looked at the DNA of the microbes and tracked where they came from. Their analysis included monitoring wind trajectories to detect how far the microbes may have travelled. They found that the atmospheric eco-system was very much "isolated," self-contained, and free from contaminants from elsewhere in the world. The source of the microbes was the Southern Ocean, rather than airborne pollutants from other continents. The researchers concluded that the Southern Ocean is one of very few places on Earth that has been "minimally affected by anthropogenic activities".

Sources: <https://www.newsweek.com/air-antarctica-cleanest-world-1508433>
<https://www.ecowatch.com/cleanest-air-earth-scientists-2646150814.html>
<https://scitechdaily.com/cleanest-air-on-earth-identified-by-atmospheric-scientists-in-first-of-its-kind-study/>

WARM-UPS

1. CLEAN AIR: Students walk around the class and talk to other students about clean air. Change partners often and share your findings.

2. CHAT: In pairs / groups, talk about these topics or words from the article. What will the article say about them? What can you say about these words and your life?

discover / clean air / purity / region / atmosphere / clouds / pollutants / pristine / structure / microbes / analysis / eco-system / microbes / continent / Antarctica

Have a chat about the topics you liked. Change topics and partners frequently.

3. HEAVY FINES: Students A **strongly** believe we should give heavy fines to factories that create pollution; Students B **strongly** believe we shouldn't. Change partners again and talk about your conversations.

4. CLEAN: How important is it for these things to be clean? How can we make them cleaner? Complete this table with your partner(s). Change partners often and share what you wrote.

| | Importance | How To Make Them Cleaner |
|------------------|------------|--------------------------|
| Air | | |
| Oceans | | |
| Roads | | |
| Rivers | | |
| Cities | | |
| Public buildings | | |

5. EARTH: Spend one minute writing down all of the different words you associate with the word "Earth". Share your words with your partner(s) and talk about them. Together, put the words into different categories.

6. POLLUTION: Rank these with your partner. Put the most dangerous forms of pollution at the top. Change partners often and share your rankings.

- Water pollution
- Plastic pollution
- Air pollution
- Radioactive contamination
- Noise pollution
- Light pollution
- Visual pollution
- Littering

VOCABULARY MATCHING

Paragraph 1

- | | |
|---------------|--|
| 1. discovered | a. Found or observed a place, substance, or scientific happening or phenomenon. |
| 2. conducted | b. A tiny, tiny portion of a physical substance. |
| 3. region | c. Organized and carried out. |
| 4. unaffected | d. The layer of gases surrounding the earth or another planet. |
| 5. atmosphere | e. An area of a country or the world having easy-to-understand characteristics, but not always with borders or fixed boundaries. |
| 6. particle | f. Not impacted by. |
| 7. pristine | g. In its original condition; unspoiled. |

Paragraph 2

- | | |
|----------------|--|
| 8. airborne | h. Far away from other places, buildings, or people; remote. |
| 9. microbe | i. Discover or identify the presence or existence of something. |
| 10. trajectory | j. In the air; travelling in the air. |
| 11. detect | k. Any of the world's main continuous areas of land (Africa, Antarctica, Asia, Australia, Europe, North America, South America). |
| 12. isolated | l. A micro-organism, especially a bacteria causing disease. |
| 13. continent | m. To an extremely small extent; negligibly. |
| 14. minimally | n. The path or direction followed by something flying or an object moving somewhere. |

BEFORE READING / LISTENING

From <https://breakingnewsenglish.com/2006/200606-clean-air.html>

1. TRUE / FALSE: Read the headline. Guess if a-h below are true (T) or false (F).

- a. Researchers found the world's cleanest air in Colorado's mountains. **T / F**
- b. Researchers found an area that was not affected by human activity. **T / F**
- c. The area the researchers looked at was in the lower clouds. **T / F**
- d. Researchers said the area they monitored was pristine. **T / F**
- e. The scientists analysed the DNA of microbes in the air. **T / F**
- f. The scientists said the area under study was not an isolated eco-system. **T / F**
- g. The air the scientists studied had microbes from nearby continents. **T / F**
- h. The Southern Ocean is the only place on Earth unaffected by aerosols. **T / F**

2. SYNONYM MATCH:

Match the following synonyms. The words in **bold** are from the news article.

- | | |
|------------------------|----------------|
| 1. discovered | a. unspoiled |
| 2. conducted | b. revealed |
| 3. region | c. remote |
| 4. showed | d. carried out |
| 5. pristine | e. paths |
| 6. airborne | f. scant |
| 7. trajectories | g. found |
| 8. isolated | h. origin |
| 9. source | i. area |
| 10. few | j. in flight |

3. PHRASE MATCH: (Sometimes more than one choice is possible.)

- | | |
|---|------------------------|
| 1. discovered what they believe to be | a. airborne microbes |
| 2. conducted research on the purity | b. from human activity |
| 3. the atmosphere in | c. from elsewhere |
| 4. pollutants or particles derived | d. of the air |
| 5. scientists called this pollution-free area | e. the cleanest air |
| 6. scientists analysed the structure of | f. trajectories |
| 7. They looked at the | g. the lower clouds |
| 8. wind | h. places on Earth |
| 9. contaminants | i. "truly pristine" |
| 10. one of very few | j. DNA of the microbes |

GAP FILL

From <https://breakingnewsenglish.com/2006/200606-clean-air.html>

Scientists have discovered what they believe to be the (1) _____ air on Earth. Researchers from Colorado State University and the Australian Bureau of Meteorology (2) _____ research on the purity of the air above Antarctica. They found a (3) _____ over the Southern Ocean, between the south of Australia and Antarctica, that was "(4) _____ " by human activity. The scientists said the area they researched formed the (5) _____ in the lower clouds. The (6) _____ of the air showed that it was totally free from "anthropogenic aerosols". These are (7) _____ or particles derived from human activity, or dust from other continents. The scientists called this pollution-free area, "truly (8) _____".

unaffected
conducted
analysis
pristine
region
pollutants
cleanest
atmosphere

The scientists analysed the structure of (9) _____ microbes in the lower clouds over the Southern Ocean. They looked at the DNA of the microbes and (10) _____ where they came from. Their analysis included monitoring wind trajectories to (11) _____ how far the microbes may have travelled. They found that the atmospheric eco-system was very much "(12) _____," self-contained, and free from contaminants from (13) _____ in the world. The source of the microbes was the Southern Ocean, rather than airborne pollutants from other (14) _____. The researchers concluded that the Southern Ocean is one of very (15) _____ places on Earth that has been "(16) _____ affected by anthropogenic activities".

isolated
continents
tracked
minimally
detect
few
airborne
elsewhere

LISTENING – Guess the answers. Listen to check.

From <https://breakingnewsenglish.com/2006/200606-clean-air.html>

- 1) Scientists have discovered what they believe to be the _____ Earth
 - a. cleanest air on
 - b. cleanest air in
 - c. cleanest air by
 - d. cleanest air at
- 2) between the south of Australia and Antarctica, that was "unaffected" _____
 - a. by humane activity
 - b. by human activity
 - c. by humanly activity
 - d. by humans activity
- 3) The scientists said the area they researched formed the atmosphere in _____
 - a. the low are clouds
 - b. the lower cloudy
 - c. them lower clouds
 - d. the lower clouds
- 4) These are pollutants or particles _____ activity
 - a. derived from human
 - b. delivered from human
 - c. delved from human
 - d. derived from human
- 5) The scientists called this pollution-free area, " _____ "
 - a. true pre teens
 - b. truly pre-steam
 - c. truly pristine
 - d. truly pre-stem
- 6) The scientists analysed the structure of _____
 - a. airborne micro bees
 - b. airborne microbes
 - c. air born my crabs
 - d. air born mic robes
- 7) They looked at the DNA of the microbes and _____ came from
 - a. tracked where they
 - b. track it where they
 - c. trucked where they
 - d. truck it where they
- 8) They found that the atmospheric eco-system was very much _____ ...
 - a. "isolated," self-contained
 - b. "isolate it," self-contained
 - c. "I so late," it self-contained
 - d. "isolated," self-contained
- 9) The source of the microbes was the Southern Ocean, rather _____
 - a. than airborne polluted ants
 - b. than airborne pollute ants
 - c. than airborne poll mutants
 - d. than airborne pollutants
- 10) one of very few places on Earth that has _____
 - a. been "minimally affected"
 - b. been "minimally reflected"
 - c. been "minimally dissected"
 - d. been "minimally infected"

LISTENING – Listen and fill in the gaps

From <https://breakingnewsenglish.com/2006/200606-clean-air.html>

Scientists have discovered what they believe to (1) _____ air on Earth. Researchers from Colorado State University and the Australian Bureau of Meteorology conducted research (2) _____ of the air above Antarctica. They (3) _____ over the Southern Ocean, between the south of Australia and Antarctica, that was "unaffected" (4) _____. The scientists said the area they researched formed the atmosphere in the lower clouds. The analysis of the air showed that it was totally free from "anthropogenic aerosols". These are (5) _____ derived from human activity, or dust from other continents. The scientists called this pollution-free (6) _____.

The scientists analysed (7) _____ airborne microbes in the lower clouds over the Southern Ocean. They looked at the DNA of the (8) _____ where they came from. Their analysis included monitoring wind trajectories to (9) _____ the microbes may have travelled. They found that the atmospheric eco-system was very much "isolated," self-contained, and free from contaminants (10) _____ the world. The source of the microbes was the Southern Ocean, rather than airborne pollutants (11) _____. The researchers concluded that the Southern Ocean is one of very few places on Earth that has been "(12) _____ anthropogenic activities".

COMPREHENSION QUESTIONS

From <https://breakingnewsenglish.com/2006/200606-clean-air.html>

1. Which country's meteorology bureau took part in the research?
2. In which area of the world did researchers study air purity?
3. Where was the area scientists researched in relation to Australia?
4. What anthropogenic things was the air free from?
5. What was the air free from besides pollutants and particles?
6. What airborne things did scientists examine the DNA of?
7. What did the scientists analyse the trajectory of?
8. What did the scientists say the source of the microbes was?
9. Where had microbes in the Southern Ocean not come from?
10. Where did scientists say had been minimally affected by anthropogenes?

MULTIPLE CHOICE - QUIZ

From <https://breakingnewsenglish.com/2006/200606-clean-air.html>

- 1) Which country's meteorology bureau took part in the research?
 - a) Canada's
 - b) Argentina's
 - c) Australia's
 - d) India's
- 2) In which area of the world did researchers study air purity?
 - a) Antarctica
 - b) Siberia
 - c) Greenland
 - d) the Arctic
- 3) Where was the area scientists researched in relation to Australia?
 - a) north by northwest
 - b) behind Australia
 - c) north by northeast
 - d) it was south of Australia
- 4) What anthropogenic things was the air free from?
 - a) bugs
 - b) aerosols
 - c) birds
 - d) airplanes
- 5) What was the air free from besides pollutants and particles?
 - a) ice
 - b) pollen
 - c) dust
 - d) smoke
- 6) What airborne things did scientists examine the DNA of?
 - a) airplanes
 - b) microbes
 - c) birds
 - d) flying fish
- 7) What did the scientists analyse the trajectory of?
 - a) an airborne insect
 - b) the sun's rays
 - c) climate change
 - d) wind
- 8) What did the scientists say the source of the microbes was?
 - a) plankton
 - b) the Southern Ocean
 - c) photosynthesis
 - d) climate change
- 9) Where did scientists say microbes had not come from?
 - a) other continents
 - b) space
 - c) the seabed
 - d) a lab
- 10) Where did scientists say had been minimally affected by anthropogenes?
 - a) the upper atmosphere
 - b) the seabed
 - c) The Pacific Ocean
 - d) the Southern Ocean

ROLE PLAY

From <https://breakingnewsenglish.com/2006/200606-clean-air.html>

Role A – Water Pollution

You think water pollution is the worst form of pollution. Tell the others three reasons why. Tell them why their forms of pollution aren't as bad. Also, tell the others which is the least damaging of these (and why): plastic pollution, noise pollution or light pollution.

Role B – Plastic Pollution

You think plastic pollution is the worst form of pollution. Tell the others three reasons why. Tell them why their forms of pollution aren't as bad. Also, tell the others which is the least damaging of these (and why): water pollution, noise pollution or light pollution.

Role C – Noise Pollution

You think noise pollution is the worst form of pollution. Tell the others three reasons why. Tell them why their forms of pollution aren't as bad. Also, tell the others which is the least damaging of these (and why): plastic pollution, water pollution or light pollution.

Role D – Light Pollution

You think light pollution is the worst form of pollution. Tell the others three reasons why. Tell them why their forms of pollution aren't as bad. Also, tell the others which is the least damaging of these (and why): plastic pollution, noise pollution or water pollution.

AFTER READING / LISTENING

From <https://breakingnewsenglish.com/2006/200606-clean-air.html>

1. WORD SEARCH: Look in your dictionary / computer to find collocates, other meanings, information, synonyms ... for the words 'clean' and 'air'.

| clean | air |
|-------|-----|
| | |

- Share your findings with your partners.
- Make questions using the words you found.
- Ask your partner / group your questions.

2. ARTICLE QUESTIONS: Look back at the article and write down some questions you would like to ask the class about the text.

- Share your questions with other classmates / groups.
- Ask your partner / group your questions.

3. GAP FILL: In pairs / groups, compare your answers to this exercise. Check your answers. Talk about the words from the activity. Were they new, interesting, worth learning...?

4. VOCABULARY: Circle any words you do not understand. In groups, pool unknown words and use dictionaries to find their meanings.

5. TEST EACH OTHER: Look at the words below. With your partner, try to recall how they were used in the text:

| | |
|---|--|
| <ul style="list-style-type: none">• believe• purity• region• formed• dust• truly | <ul style="list-style-type: none">• structure• DNA• wind• free• source• few |
|---|--|

CLEAN AIR SURVEY

From <https://breakingnewsenglish.com/2006/200606-clean-air.html>

Write five GOOD questions about clean air in the table. Do this in pairs. Each student must write the questions on his / her own paper. When you have finished, interview other students. Write down their answers.

| | STUDENT 1 _____ | STUDENT 2 _____ | STUDENT 3 _____ |
|------|--------------------|--------------------|--------------------|
| Q.1. | | | |
| Q.2. | | | |
| Q.3. | | | |
| Q.4. | | | |
| Q.5. | | | |

- Now return to your original partner and share and talk about what you found out. Change partners often.
- Make mini-presentations to other groups on your findings.

CLEAN AIR DISCUSSION

STUDENT A's QUESTIONS (Do not show these to student B)

1. What did you think when you read the headline?
2. What images are in your mind when you hear the word 'clean'?
3. How clean is the air where you live?
4. How important is it for you to have perfectly clean air?
5. How do you feel when the air is polluted?
6. To what degree is 100% pure air a human right?
7. What do you think of factories that create pollution?
8. What activities do you do that creates pollution?
9. Would you pay for clean air?
10. Would you move to Antarctica to be able to breathe pure air?

Scientists discover the world's cleanest air – 6th June, 2020
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CLEAN AIR DISCUSSION

STUDENT B's QUESTIONS (Do not show these to student A)

11. Did you like reading this article? Why/not?
12. What do you think of when you hear the word 'air'?
13. What do you think about what you read?
14. What do you know about clouds?
15. What would you advise your government regarding clean air?
16. What do you think is contained in the DNA of air?
17. What collocations do you know for the word 'air'?
18. What damage have humans done to the air?
19. What will our air be like in 50 years from now?
20. What questions would you like to ask the scientists?

DISCUSSION (Write your own questions)

STUDENT A's QUESTIONS (Do not show these to student B)

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

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DISCUSSION (Write your own questions)

STUDENT B's QUESTIONS (Do not show these to student A)

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

LANGUAGE - CLOZE

From <https://breakingnewsenglish.com/2006/200606-clean-air.html>

Scientists have discovered what they (1) _____ to be the cleanest air on Earth. Researchers from Colorado State University and the Australian Bureau of Meteorology conducted research on the (2) _____ of the air above Antarctica. They found a region over the Southern Ocean, between the south of Australia and Antarctica, that was "unaffected" (3) _____ human activity. The scientists said the area they researched (4) _____ the atmosphere in the lower clouds. The analysis of the air showed that it was (5) _____ free from "anthropogenic aerosols". These are pollutants or particles derived from human activity, or dust from other continents. The scientists called this pollution-free area, "truly (6) _____".

The scientists analysed the (7) _____ of airborne microbes in the lower clouds over the Southern Ocean. They looked at the DNA of the microbes and (8) _____ where they came from. Their analysis included monitoring wind trajectories to (9) _____ how far the microbes may have travelled. They found that the atmospheric ecosystem was very much "isolated," self-contained, and free from contaminants from (10) _____ in the world. The source of the microbes was the Southern Ocean, rather than airborne pollutants from other continents. The researchers (11) _____ that the Southern Ocean is one of very few places on Earth that has been "(12) _____ affected by anthropogenic activities".

Put the correct words from the table below in the above article.

- | | | | | |
|-----|---------------|---------------|--------------|---------------|
| 1. | (a) believe | (b) belief | (c) believer | (d) believing |
| 2. | (a) parity | (b) paucity | (c) purity | (d) particle |
| 3. | (a) at | (b) on | (c) by | (d) of |
| 4. | (a) foamed | (b) framed | (c) famed | (d) formed |
| 5. | (a) total | (b) totality | (c) totally | (d) totals |
| 6. | (a) pasted | (b) pristine | (c) parting | (d) praised |
| 7. | (a) stricture | (b) structure | (c) stature | (d) statue |
| 8. | (a) tricked | (b) tracked | (c) trickled | (d) trekked |
| 9. | (a) detract | (b) inject | (c) detect | (d) defect |
| 10. | (a) else | (b) whenever | (c) where | (d) elsewhere |
| 11. | (a) precluded | (b) secluded | (c) included | (d) concluded |
| 12. | (a) maxim | (b) minimum | (c) minimal | (d) minimally |

SPELLING

From <https://breakingnewsenglish.com/2006/200606-clean-air.html>

Paragraph 1

1. research on the ytrupi of the air
2. a rngoie over the Southern Ocean
3. ctfdafnuee by human activity
4. the atorpmhese in the lower clouds
5. parisclte derived from human activity
6. scientists called this pollution-free area, "truly irntsepi"

Paragraph 2

7. The scientists analysed the ttceurrus
8. airborne eibmcsro
9. free from oaimcatnsntn
10. from other cenntotsin
11. The researchers docdelucn that
12. liymilamn affected by anthropogenic activities

PUT THE TEXT BACK TOGETHER

From <https://breakingnewsenglish.com/2006/200606-clean-air.html>

Number these lines in the correct order.

- () Ocean. They looked at the DNA of the microbes and tracked where they came from. Their analysis included
- () The scientists analysed the structure of airborne microbes in the lower clouds over the Southern
- () system was very much "isolated," self-contained, and free from contaminants from elsewhere
- () than airborne pollutants from other continents. The researchers concluded that the Southern Ocean is one
- () atmosphere in the lower clouds. The analysis of the air showed that it was totally
- () dust from other continents. The scientists called this pollution-free area, "truly pristine".
- () monitoring wind trajectories to detect how far the microbes may have travelled. They found that the atmospheric eco-
- (**1**) Scientists have discovered what they believe to be the cleanest air on Earth. Researchers from
- () free from "anthropogenic aerosols". These are pollutants or particles derived from human activity, or
- () and Antarctica, that was "unaffected" by human activity. The scientists said the area they researched formed the
- () purity of the air above Antarctica. They found a region over the Southern Ocean, between the south of Australia
- () Colorado State University and the Australian Bureau of Meteorology conducted research on the
- () of very few places on Earth that has been minimally affected by anthropogenic activities."
- () in the world. The source of the microbes was the Southern Ocean, rather

PUT THE WORDS IN THE RIGHT ORDER

From <https://breakingnewsenglish.com/2006/200606-clean-air.html>

1. believe to Discovered they be the what cleanest .
2. Conducted on research the the purity air . of
3. found a region the They Ocean . Southern over
4. area they atmosphere . The the formed researched
5. pollution-free this The truly area pristine . scientists called
6. structure microbes . analysed airborne of The the scientists
7. the microbes . at They the DNA looked of
8. travelled . may far the Detect how microbes have
9. in from Free world . from elsewhere the contaminants
10. the few on of very places Earth . One

CIRCLE THE CORRECT WORD (20 PAIRS)

From <https://breakingnewsenglish.com/2006/200606-clean-air.html>

Scientists have discovered what they *belief / believe* to be the cleanest air on Earth. Researchers from Colorado State University and the Australian Bureau of Meteorology *conduction / conducted* research on the purity of the air *above / higher* Antarctica. They found a *legion / region* over the Southern Ocean, between the *southern / south* of Australia and Antarctica, that was "unaffected" by human *active / activity*. The scientists said the area they researched formed the atmosphere in the lower clouds. The *analysis / analysts* of the air showed that it was totally *free / freedom* from "anthropogenic aerosols". These are pollutants or particles *drive / derived* from human activity, or *dust / dusty* from other continents. The scientists called this pollution-free area, "truly pristine".

The scientists analysed the *map / structure* of airborne microbes in the lower clouds over the Southern Ocean. They looked *by / at* the DNA of the microbes and tracked *where / when* they came from. Their analysis included monitoring wind *tragedies / trajectories* to detect how far the microbes may have travelled. They found that the atmospheric eco-system was very *many / much* "isolated," self-contained, and free from contaminants from elsewhere in *the / a* world. The source of the microbes was the Southern Ocean, rather than *airborne / born* pollutants from other continents. The researchers *findings / concluded* that the Southern Ocean is *one / once* of very few places on Earth that has been "*minimally / maximum* affected by anthropogenic activities".

Talk about the connection between each pair of words in italics, and why the correct word is correct.

INSERT THE VOWELS (a, e, i, o, u)

From <https://breakingnewsenglish.com/2006/200606-clean-air.html>

Sc__ nt_s ts h_v_ d_s c_v_r_d w h_t t h_y b_l__ v_
t_ b_ t h_ c l__ n_s t __ r _n E_r th. R_s__ r ch_r s
f_r_m C_l_r_d_ S t_t_ U n_v_r s_t y _n d t h_ A_s t
r_l__ n B_r__ _f M_t__ r_l_g y c_n d_c t_d r_s__ r c
h _n t h_ p_r_t y _f t h_ __ r _b_v_ A n_t_r c_t_c_. T
h_y f__ n d _ r_g__ n _v_r t h_ S__ t h_r n O c__ n,
b_t w__ n t h_ s__ t h _f A_s t_r_l__ _n d A n_t_r c
t_c_, t h_t w_s "n_f f_c t_d" b y h_m_n _c t_v_t y
. T h_ s c__ n t_s t s s__ d t h_ _r__ t h_y r_s__ r c
h_d f_r m_d t h_ _t m_s p h_r _n t h_ l_w_r c l__ d
s. T h_ _n_l y_s_s _f t h_ __ r s h_w_d t h_t _t
w_s t_t_l_l y f_r__ f_r_m "n t h_r_p_g_n_c __ r_s_l_s
". T h_s _r_ p_l_l_t_n_t s _r p_r_t_c_l_s d_r_v_d f
r_m h_m_n _c t_v_t y, _r d_s t f_r_m _t h_r c_n
t_n_n_t s. T h_ s c__ n t_s t s c_l_l_d t h_s p_l_l_t__
n - f_r__ _r__, "t_r_l_y p_r_s_t_n_".

T h_ s c__ n t_s t s _n_l y_s_d t h_ s t_r_c_t_r_ _f __ r
b_r_n_ m_c_r_b_s _n t h_ l_w_r c l__ d_s _v_r t h_
S__ t h_r n O c__ n. T h_y l__ k_d _t t h_ D N A _f
t h_ m_c_r_b_s _n d t_r_c_k_d w h_r_ t h_y c_m_ f
r_m. T h__ r _n_l y_s_s _n c_l_d_d m_n_t_r_n_g w_n d
t_r_j_c_t_r__ s t_ d_t_c_t h_w f_r t h_ m_c_r_b_s
m_y h_v_ t_r_v_l_l_d. T h_y f__ n d t h_t t h_ _t
m_s p h_r_c _c_-s_y_s_t_m w_s v_r y m_c h "s_l_t_d
, " s_l_f - c_n_t__ n_d, _n d f_r__ f_r_m c_n_t_m_n_n
t_s f_r_m _l_s_w_h_r _n t h_ w_r_l_d. T h_ s__ r c
f t h m_c_r_b_s w_s t h_ S__ t h_r n O c__ n,
r_t h_r t h_n __ r b_r_n_ p_l_l_t_n_t s f_r_m _t h_r
c_n_t_n_n_t s. T h_ r_s__ r ch_r s c_n c_l_d_d t h_t t
h_ S__ t h_r n O c__ n _s _n_ _f v_r y f_w p_l_c_s
_n E_r th t h_t h_s b__ n "m_n_m_l_l y _f f_c t_d
b y _n t h_r_p_g_n_c _c t_v_t__ s".

PUNCTUATE THE TEXT AND ADD CAPITALS

From <https://breakingnewsenglish.com/2006/200606-clean-air.html>

scientists have discovered what they believe to be the cleanest air on earth researchers from colorado state university and the australian bureau of meteorology conducted research on the purity of the air above antarctica they found a region over the southern ocean between the south of australia and antarctica that was unaffected by human activity the scientists said the area they researched formed the atmosphere in the lower clouds the analysis of the air showed that it was totally free from anthropogenic aerosols these are pollutants or particles derived from human activity or dust from other continents the scientists called this pollutionfree area truly pristine

the scientists analysed the structure of airborne microbes in the lower clouds over the southern ocean they looked at the dna of the microbes and tracked where they came from their analysis included monitoring wind trajectories to detect how far the microbes may have travelled they found that the atmospheric ecosystem was very much isolated selfcontained and free from contaminants from elsewhere in the world the source of the microbes was the southern ocean rather than airborne pollutants from other continents the researchers concluded that the southern ocean is one of very few places on earth that has been minimally affected by anthropogenic activities

PUT A SLASH (/) WHERE THE SPACES ARE

From <https://breakingnewsenglish.com/2006/200606-clean-air.html>

Scientists have discovered what they believe to be the cleanest air on Earth. Researchers from Colorado State University and the Australian Bureau of Meteorology conducted research on the purity of the air above Antarctica. They found a region over the Southern Ocean, between the south of Australia and Antarctica, that was "unaffected" by human activity. The scientists said the area they researched formed the atmosphere in the lower clouds. The analysis of the air showed that it was totally free from "anthropogenic aerosols". These are pollutants or particles derived from human activity, or dust from other continents. The scientists called this pollution-free area, "truly pristine". The scientists analysed the structure of airborn microbes in the lower clouds over the Southern Ocean. They looked at the DNA of the microbes and tracked where they came from. Their analysis included monitoring wind trajectories to detect how far the microbes may have travelled. They found that the atmospheric ecosystem was very much "isolated, self-contained, and free from contaminants from elsewhere in the world. The source of the microbes was the Southern Ocean, rather than airborne pollutants from other continents. The researcher concluded that the Southern Ocean is one of very few places on Earth that has been "minimally affected by anthropogenic activities".

HOMEWORK

1. VOCABULARY EXTENSION: Choose several of the words from the text. Use a dictionary or Google's search field (or another search engine) to build up more associations / collocations of each word.

2. INTERNET: Search the Internet and find out more about this news story. Share what you discover with your partner(s) in the next lesson.

3. CLEAN AIR: Make a poster about clean air. Show your work to your classmates in the next lesson. Did you all have similar things?

4. POLLUTION: Write a magazine article about governments imposing huge taxes on companies to keep the air clean. Include imaginary interviews with people who are for and against this.

Read what you wrote to your classmates in the next lesson. Write down any new words and expressions you hear from your partner(s).

5. WHAT HAPPENED NEXT? Write a newspaper article about the next stage in this news story. Read what you wrote to your classmates in the next lesson. Give each other feedback on your articles.

6. LETTER: Write a letter to an expert on clean air. Ask him/her three questions about it. Give him/her three of your ideas on how to make the air cleaner. Read your letter to your partner(s) in your next lesson. Your partner(s) will answer your questions.

ANSWERS

VOCABULARY (p.4)

1. a 2. c 3. e 4. f 5. d 6. b 7. g
8. j 9. l 10. n 11. i 12. h 13. k 14. m

TRUE / FALSE (p.5)

- a F b T c T d T e T f F g F h F

SYNONYM MATCH (p.5)

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

COMPREHENSION QUESTIONS (p.9)

1. Australia's
2. Antarctica
3. It was south of Australia
4. Aerosols
5. Dust
6. Microbes
7. Wind
8. The Southern Ocean
9. Other continents
10. The Southern Ocean

WORDS IN THE RIGHT ORDER (p.20)

1. Discovered what they believe to be the cleanest.
2. Conducted research on the purity of the air.
3. They found a region over the Southern Ocean.
4. The area they researched formed the atmosphere.
5. The scientists called this pollution-free area truly pristine.
6. The scientists analysed the structure of airborne microbes.
7. They looked at the DNA of the microbes.
8. Detect how far the microbes may have travelled.
9. Free from contaminants from elsewhere in the world.
10. One of the very few places on Earth.

MULTIPLE CHOICE - QUIZ (p.10)

1. c 2. a 3. d 4. b 5. c 6. d 7. b 8. d 9. a 10. d

ALL OTHER EXERCISES

Please check for yourself by looking at the Article on page 2.
(It's good for your English ;-)