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Level 6 – 26th August 2024

Antarctica is rising from the ocean

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<https://breakingnewsenglish.com/2408/240826-antarctica-post-glacial-uplift.html>

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

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THE ARTICLE

From <https://breakingnewsenglish.com/2408/240826-antarctica-post-glacial-uplift.html>

The continent of Antarctica is rising. It is due to a geological phenomenon called post-glacial uplift. It will have huge consequences for the whole of Earth. An astronomical volume of ice has melted from Antarctica's glaciers. This has made the continent lighter. This consequently means it is slowly rising. The melting glacial water is causing sea levels around the globe to rise. Geologist Terry Wilson from Ohio State University wrote: "Our measurements show that the solid earth that forms the base of the Antarctic ice sheet is changing shape surprisingly quickly. The land uplift from reduced ice on the surface is happening in decades, rather than over thousands of years."

Researchers used 3D modelling in an attempt to ascertain how rising sea levels could impact Earth. The team said levels could rise between 1.7 meters to 19.5 meters by 2500. McGill University glaciologist Natalya Gomez wrote: "With nearly 700 million people living in coastal areas, and the potential cost of sea-level rise reaching trillions of dollars by the end of the century, understanding the domino effect of Antarctic ice melt is crucial." She added that post-glacial uplift will unfairly affect countries differently. She said: "This finding highlights the climate injustice toward nations whose emissions are low, while their exposure and vulnerability to sea-level rise is high."

Sources: <https://www.sciencealert.com/one-of-earths-continents-is-rising-up-and-the-effects-could-be-huge>
<https://bgr.com/science/antarctica-is-rising-out-of-the-ocean-and-it-could-change-everything/>
<https://www.wionews.com/science/antarctica-is-rising-from-ocean-and-losing-weight-heres-how-it-will-impact-earth-751995>

WARM-UPS

1. ANTARCTICA: Students walk around the class and talk to other students about Antarctica. 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?

continent / Antarctica / geological phenomenon / melting ice / glaciers / land uplift / 3D modelling / glaciologist / coastal areas / trillions of dollars / climate injustice

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

3. SEA LEVELS: Students A **strongly** believe rising sea levels will not cause a big problem; Students B **strongly** believe they will. Change partners again and talk about your conversations.

4. CONTINENTS: What do you know about these continents? What environmental problems do they have? What are the solutions? Complete this table with your partner(s). Change partners often and share what you wrote.

	What I Know	Environmental Problems	Solutions
Antarctica			
Asia			
Africa			
Europe			
Australia			
South America			

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

6. ENVIRONMENTAL PROBLEMS: Rank these with your partner. Put the biggest problems at the top. Change partners often and share your rankings.

- Rising sea levels
- Deforestation
- Microplastics
- Food waste
- Biodiversity loss
- Deforestation
- Air pollution
- Overfishing

VOCABULARY MATCHING

Paragraph 1

- | | |
|-----------------|---|
| 1. continent | a. What happens because of something else. |
| 2. geological | b. One of the seven large areas of land, like Africa, Asia, or Europe. |
| 3. phenomenon | c. Something that happens and can be seen or felt. |
| 4. consequence | d. A large, slow-moving piece of ice on a mountain or near the North or South Pole. |
| 5. astronomical | e. The bottom or lowest part of something. |
| 6. glacier | f. About rocks, the Earth, and how the Earth changes over a long time. |
| 7. base | g. Very, very big, or about space. |

Paragraph 2

- | | |
|-------------------|--|
| 8. ascertain | h. Very important, something that must be done or remembered. |
| 9. potential | i. Being easily hurt or harmed by something. |
| 10. domino effect | j. Gases or other things that are sent out into the air. |
| 11. crucial | k. When one thing causes another thing to happen, and another thing, and another thing. and another... |
| 12. injustice | l. When something is not fair or right. |
| 13. emissions | m. Find out or learn something for sure. |
| 14. vulnerability | n. Something that could happen or could be true in the future. |

BEFORE READING / LISTENING

From <https://breakingnewsenglish.com/2408/240826-antarctica-post-glacial-uplift.html>

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

1. A phenomenon called glacial post-uplift is making Antarctica rise. **T / F**
2. The article says rising sea levels will only affect South Pacific islands. **T / F**
3. Antarctica is rising because it's getting lighter. **T / F**
4. The melting ice is happening over decades rather than millennia. **T / F**
5. Sea levels could rise by over 19 metres by 2500. **T / F**
6. Sea-level rises could cost quadrillions of dollars. **T / F**
7. A scientist said we need to understand the backgammon effect. **T / F**
8. There is climate injustice towards nations with low emissions. **T / F**

2. SYNONYM MATCH: (The words in **bold** are from the news article.)

- | | |
|------------------------|-----------------|
| 1. phenomenon | a. foundation |
| 2. consequences | b. pivotal |
| 3. base | c. find out |
| 4. measurements | d. results |
| 5. shape | e. unfairness |
| 6. ascertain | f. form |
| 7. potential | g. occurrence |
| 8. crucial | h. subjection |
| 9. injustice | i. calculations |
| 10. exposure | j. possible |

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

- | | |
|------------------------------------|------------------------------------|
| 1. due to a geological phenomenon | a. of ice has melted |
| 2. It will have huge | b. are low |
| 3. An astronomical volume | c. ice on the surface |
| 4. Our measurements | d. modelling |
| 5. The land uplift from reduced | e. vulnerability to sea-level rise |
| 6. Researchers used 3D | f. called post-glacial uplift |
| 7. ascertain how rising sea levels | g. effect |
| 8. the domino | h. could impact Earth |
| 9. nations whose emissions | i. consequences |
| 10. their exposure and | j. show that |

GAP FILL

From <https://breakingnewsenglish.com/2408/240826-antarctica-post-glacial-uplift.html>

The continent of Antarctica is rising. It is (1) _____ to a geological phenomenon called post-glacial uplift. It will have huge consequences for the (2) _____ of Earth. An astronomical volume of ice has melted from Antarctica's glaciers. This has made the continent (3) _____. This consequently means it is slowly (4) _____. The melting glacial water is causing sea levels around the (5) _____ to rise. Geologist Terry Wilson from Ohio State University wrote: "Our measurements show that the solid earth that forms the (6) _____ of the Antarctic ice sheet is changing shape surprisingly (7) _____. The land uplift from reduced ice on the surface is happening in (8) _____, rather than over thousands of years."

lighter
globe
decades
whole
base
due
rising
quickly

Researchers used 3D (9) _____ in an attempt to ascertain how rising sea levels could (10) _____ Earth. The team said levels could rise between 1.7 meters to 19.5 meters by 2500. McGill University (11) _____ Natalya Gomez wrote: "With nearly 700 million people living in coastal areas, and the (12) _____ cost of sea-level rise reaching trillions of dollars by the end of the century, understanding the domino effect of Antarctic ice melt is (13) _____." She added that post-glacial uplift will unfairly affect countries differently. She said: "This (14) _____ highlights the climate injustice toward nations whose (15) _____ are low, while their exposure and (16) _____ to sea-level rise is high."

potential
finding
modelling
vulnerability
glaciologist
emissions
impact
crucial

LISTENING – Guess the answers. Listen to check.

From <https://breakingnewsenglish.com/2408/240826-antarctica-post-glacial-uplift.html>

- 1) It is due to a geological phenomenon called _____
 - a. paste-glacial uplift
 - b. past-glacial uplift
 - c. pest-glacial uplift
 - d. post-glacial uplift
- 2) It will have huge consequences for the _____
 - a. hole of Earth
 - b. whole off Earth
 - c. whole of Earth
 - d. whale of Earth
- 3) The melting glacial water is causing sea levels around the _____
 - a. globe to raise
 - b. globe to arise
 - c. globe to rise
 - d. globe too rise
- 4) measurements show that the solid earth that forms the base of the _____
 - a. Antarctic ice sleet
 - b. Antarctic ice skeet
 - c. Antarctic ice sweet
 - d. Antarctic ice sheet
- 5) The land uplift from reduced ice on the surface is _____
 - a. happening on decade
 - b. happen in decades
 - c. happening in decade
 - d. happening in decades
- 6) Researchers used 3D modelling in an attempt to ascertain how rising sea levels _____
 - a. could compact Earth
 - b. could impact Earth
 - c. could impart Earth
 - d. could in pact Earth
- 7) trillions of dollars by the end of the century, understanding _____
 - a. the dummy no effect
 - b. the dominant effect
 - c. the domino effect
 - d. the dome no effect
- 8) She added that post-glacial uplift will unfairly _____
 - a. affect countries differently
 - b. effect countries differently
 - c. infect countries differently
 - d. confect countries differently
- 9) This finding highlights the climate injustice toward nations whose _____
 - a. emissions are allow
 - b. emissions are low
 - c. emissions are lowed
 - d. emissions are lowly
- 10) their exposure and vulnerability to sea-level _____
 - a. rise is height
 - b. raise is high
 - c. riser is high
 - d. rise is high

LISTENING – Listen and fill in the gaps

From <https://breakingnewsenglish.com/2408/240826-antarctica-post-glacial-uplift.html>

The continent of Antarctica is rising. It is (1) _____ geological phenomenon called post-glacial uplift. It will have huge consequences for the whole of Earth. (2) _____ of ice has melted from Antarctica's glaciers. This has made the continent lighter. This (3) _____ is slowly rising. The melting glacial water is causing sea levels around the (4) _____. Geologist Terry Wilson from Ohio State University wrote: "Our measurements show that the solid earth that (5) _____ of the Antarctic ice sheet is changing shape surprisingly quickly. The land uplift from reduced ice on the surface is (6) _____, rather than over thousands of years."

Researchers used 3D modelling in an (7) _____ how rising sea levels could impact Earth. The team said (8) _____ between 1.7 meters to 19.5 meters by 2500. McGill University glaciologist Natalya Gomez wrote: "With nearly 700 million people living (9) _____, and the potential cost of sea-level rise reaching trillions of dollars by the end of the century, understanding (10) _____ of Antarctic ice melt is crucial." She added that post-glacial uplift will unfairly affect countries differently. She said: "This finding highlights (11) _____ toward nations whose emissions are low, while their (12) _____ to sea-level rise is high."

COMPREHENSION QUESTIONS

From <https://breakingnewsenglish.com/2408/240826-antarctica-post-glacial-uplift.html>

1. What is the name of the phenomenon causing Antarctica to rise?
2. How much ice has melted?
3. What is Terry Wilson's job?
4. What did a geologist say was changing shape quickly?
5. How long does it normally take for land uplift to happen?
6. What did researchers use to find out about sea-level rises?
7. By how much could sea levels rise by 2500?
8. How much could rising sea levels cost?
9. What did a researcher say it was crucial to understand?
10. What did a researcher say the research findings highlighted?

MULTIPLE CHOICE - QUIZ

From <https://breakingnewsenglish.com/2408/240826-antarctica-post-glacial-uplift.html>

- 1) What is the name of the phenomenon causing Antarctica to rise?
 - a) polar drift
 - b) climate change
 - c) post-glacial uplift
 - d) striped icebergs
- 2) How much ice has melted?
 - a) an astronomical volume
 - b) 10 billions tons
 - c) the weight of the nation of Wales
 - d) a trillion tons
- 3) What is Terry Wilson's job?
 - a) He's a glaciologist
 - b) He's a geologist.
 - c) He's a fisherman
 - d) He's a journalist
- 4) What did a geologist say was changing shape quickly?
 - a) the Antarctic mainland
 - b) the tips of icebergs
 - c) clouds above Antarctica
 - d) the base of the Antarctic ice sheet
- 5) How long does it normally take for land uplift to happen?
 - a) a few centuries
 - b) hundreds of millennia
 - c) thousands of years
 - d) dozens of years
- 6) What did researchers use to find out about sea-level rises?
 - a) a supercomputer
 - b) 3D modelling
 - c) ice cubes in a bathtub
 - d) quantum physics
- 7) By how much could sea levels rise by 2500?
 - a) 9.5 metres
 - b) 15.9 metres
 - c) 91.5 metres
 - d) 19.5 metres
- 8) How much could rising sea levels cost?
 - a) quadrillions of dollars
 - b) trillions of dollars
 - c) billions and billions
 - d) no one knows
- 9) What did a researcher say it was crucial to understand?
 - a) the Othello effect
 - b) the domino effect
 - c) the uno effect
 - d) the chess effect
- 10) What did a researcher say the research findings highlighted?
 - a) climate injustice
 - b) the need to use less coal
 - c) biodiversity loss in Antarctica
 - d) impending danger

ROLE PLAY

From <https://breakingnewsenglish.com/2408/240826-antarctica-post-glacial-uplift.html>

Role A – Rising Sea Levels

You think rising sea levels is the biggest environmental problem. Tell the others three reasons why. Tell them why their problem isn't as bad. Also, tell the others which is the least pressing of these (and why): microplastics, biodiversity loss or deforestation.

Role B – Microplastics

You think microplastics is the biggest environmental problem. Tell the others three reasons why. Tell them why their problem isn't as bad. Also, tell the others which is the least pressing of these (and why): rising sea levels, biodiversity loss or deforestation.

Role C – Biodiversity Loss

You think biodiversity loss is the biggest environmental problem. Tell the others three reasons why. Tell them why their problem isn't as bad. Also, tell the others which is the least pressing of these (and why): microplastics, rising sea levels or deforestation.

Role D – Deforestation

You think deforestation is the biggest environmental problem. Tell the others three reasons why. Tell them why their problem isn't as bad. Also, tell the others which is the least pressing of these (and why): microplastics, biodiversity loss or rising sea levels.

AFTER READING / LISTENING

From <https://breakingnewsenglish.com/2408/240826-antarctica-post-glacial-uplift.html>

1. WORD SEARCH: Look online / in your dictionary to find collocates, information on, synonyms for... the words 'Antarctica' and 'ocean'.

Antarctica	ocean

- 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">• due• huge• lighter• globe• solid• surface	<ul style="list-style-type: none">• 3D• team• 700• domino• unfairly• low
--	---

ANTARCTICA SURVEY

From <https://breakingnewsenglish.com/2408/240826-antarctica-post-glacial-uplift.html>

Write five GOOD questions about Antarctica 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.

ANTARCTICA 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 'continent'?
3. What do you know about Antarctica?
4. How worried are you about rising sea levels?
5. What would you like to know about post-glacial uplift?
6. What will happen to our world if more ice melts?
7. How vulnerable to climate change is your country?
8. How worried are you about climate change?
9. What will Antarctica look like in two decades from now?
10. What can you do to help climate change?

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ANTARCTICA 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 'Antarctica'?
13. What do you think about what you read?
14. What state would we be in if sea levels rose by 19.5 metres?
15. What will happen during the domino effect?
16. Why isn't the world doing more to protect our planet?
17. What is climate injustice?
18. What three adjectives best describe this story?
19. Would you like to work as a glaciologist?
20. What questions would you like to ask the glaciologists?

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/2408/240826-antarctica-post-glacial-uplift.html>

The (1) _____ of Antarctica is rising. It is due to a geological phenomenon called post-glacial uplift. It will have huge consequences for the (2) _____ of Earth. An astronomical volume of ice has melted from Antarctica's glaciers. This has made the continent (3) _____. This consequently means it is slowly rising. The melting glacial water is causing sea levels around the globe to (4) _____. Geologist Terry Wilson from Ohio State University wrote: "Our measurements show that the solid earth that forms the (5) _____ of the Antarctic ice sheet is changing shape surprisingly quickly. The land uplift from reduced ice on the surface is happening (6) _____ decades, rather than over thousands of years."

Researchers used 3D modelling in an attempt to (7) _____ how rising sea levels could impact Earth. The team said levels could rise between 1.7 meters to 19.5 meters by 2500. McGill University glaciologist Natalya Gomez wrote: "With nearly 700 million people living (8) _____ coastal areas, and the potential (9) _____ of sea-level rise reaching trillions of dollars by the end of the century, understanding the (10) _____ effect of Antarctic ice melt is crucial." She added that post-glacial uplift will unfairly affect countries differently. She said: "This (11) _____ highlights the climate injustice toward nations whose emissions are low, while their exposure and (12) _____ to sea-level rise is high."

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

- | | | | | |
|-----|------------------|---------------------|-------------------|-------------------|
| 1. | (a) incontinence | (b) continental | (c) continent | (d) incontinence |
| 2. | (a) whole | (b) whale | (c) hole | (d) while |
| 3. | (a) lighter | (b) lighten | (c) enlighten | (d) light up |
| 4. | (a) rise | (b) arise | (c) rising | (d) arouse |
| 5. | (a) case | (b) base | (c) ace | (d) face |
| 6. | (a) on | (b) at | (c) by | (d) in |
| 7. | (a) concertina | (b) contain | (c) ascertain | (d)acerbate |
| 8. | (a) to | (b) at | (c) on | (d) in |
| 9. | (a) cost | (b) coast | (c) coastal | (d) costly |
| 10. | (a) chess | (b) domino | (c) uno | (d) roulette |
| 11. | (a) findings | (b) finding | (c) funding | (d) founding |
| 12. | (a) culpability | (b) approachability | (c) vulnerability | (d) improbability |

SPELLING

From <https://breakingnewsenglish.com/2408/240826-antarctica-post-glacial-uplift.html>

Paragraph 1

1. The etoincnn of Antarctica is rising
2. due to a geological hemoeonnp
3. An scmrantooail volume of ice
4. This eugsneotnlcy means it is slowly rising
5. Our uesnrseemtma show that
6. The land uplift from reduced ice on the casruef

Paragraph 2

7. in an attempt to rsciatena how
8. McGill University iosaltgicogl
9. understanding the doonim effect
10. climate istcjnuie
11. nations whose onissemsi are low
12. their exposure and aylvuibterlni to sea-level rise

PUT THE TEXT BACK TOGETHER

From <https://breakingnewsenglish.com/2408/240826-antarctica-post-glacial-uplift.html>

Number these lines in the correct order.

- () sheet is changing shape surprisingly quickly. The land uplift from reduced ice on the surface is happening
- () from Ohio State University wrote: "Our measurements show that the solid earth that forms the base of the Antarctic ice
- () effect of Antarctic ice melt is crucial." She added that post-glacial uplift will unfairly affect countries
- () cost of sea-level rise reaching trillions of dollars by the end of the century, understanding the domino
- () glaciologist Natalya Gomez wrote: "With nearly 700 million people living in coastal areas, and the potential
- () rising. The melting glacial water is causing sea levels around the globe to rise. Geologist Terry Wilson
- () in decades, rather than over thousands of years."
- () uplift. It will have huge consequences for the whole of Earth. An astronomical volume of ice has
- () low, while their exposure and vulnerability to sea-level rise is high."
- () Researchers used 3D modelling in an attempt to ascertain how rising sea levels could impact
- () differently. She said: "This finding highlights the climate injustice toward nations whose emissions are
- () melted from Antarctica's glaciers. This has made the continent lighter. This consequently means it is slowly
- (**1**) The continent of Antarctica is rising. It is due to a geological phenomenon called post-glacial
- () Earth. The team said levels could rise between 1.7 meters to 19.5 meters by 2500. McGill University

PUT THE WORDS IN THE RIGHT ORDER

From <https://breakingnewsenglish.com/2408/240826-antarctica-post-glacial-uplift.html>

1. geological Due post-glacial phenomenon a uplift . to called
2. whole huge for Have the consequences of Earth .
3. has An of volume ice astronomical melted .
4. earth Antarctic . Solid the forms that base of the
5. on surface . uplift reduced ice the from Land
6. sea rising how Ascertain impact could Earth . levels
7. of The is domino effect melt crucial . Antarctic
8. uplift affect unfairly will countries differently . Post-glacial
9. the injustice This highlights nations . finding toward climate
10. rise sea-level to vulnerability high . Their is

CIRCLE THE CORRECT WORD (20 PAIRS)

From <https://breakingnewsenglish.com/2408/240826-antarctica-post-glacial-uplift.html>

The *incontinent* / *continent* of Antarctica is rising. It is due to a geological *phenomena* / *phenomenon* called post-glacial uplift. It will have huge consequences for the *whole* / *hole* of Earth. An *astronomical* / *astronomy* volume of ice has melted from Antarctica's glaciers. This has made the continent lighter. This consequently means it is slowly *risen* / *rising*. The melting glacial water is causing sea levels *around* / *abound* the globe to rise. Geologist Terry Wilson from Ohio State University wrote: "Our measurements show that the solid earth that forms the *basic* / *base* of the Antarctic ice *sheet* / *sleet* is changing shape surprisingly quickly. The land uplift from reduced ice *on* / *in* the surface is happening in decades, rather than over thousands *in* / *of* years."

Researchers used 3D modelling *on* / *in* an attempt to ascertain how rising sea levels could *impact* / *compact* Earth. The team said levels could rise between 1.7 meters *or* / *to* 19.5 meters by 2500. McGill University glaciologist Natalya Gomez wrote: "With *nearly* / *near* 700 million people living in coastal areas, and the potential *cost* / *coast* of sea-level rise reaching trillions of dollars *in* / *by* the end of the century, understanding the domino *affect* / *effect* of Antarctic ice melt is crucial." She added that post-glacial uplift will unfairly *effect* / *affect* countries differently. She said: "This finding highlights the climate *justice* / *injustice* toward nations whose emissions are low, while their exposure and vulnerability to sea-level rise is *nigh* / *high*."

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

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

From <https://breakingnewsenglish.com/2408/240826-antarctica-post-glacial-uplift.html>

Th_ c_nt_n_nt _f _nt_rct_c_ _s r_s_ng. _t _s d__ t_ _ g__l_g_c_l ph_n_m_n_n c_ll_d p_st-gl_c__l _pl_ft. _t w_ll h_v_ h_g_ c_ns_q__nc_s f_r th_ wh_l_ _f __rth. _n _str_n_m_c_l v_l_m_ _f _c_ h_s m_lt_d fr_m _nt_rct_c_'s gl_c__rs. Th_s h_s m_d_ th_ c_nt_n_nt l_gh_t_r. Th_s c_ns_q__ntly m__ns _t _s sl_wly r_s_ng. Th_ m_lt_ng gl_c__l w_t_r _s c__s_ng s__ l_v_ls _r__nd th_ gl_b_ t_ r_s_. G__l_g_st T_rry W_ls_n fr_m _h__ St_t_ _n_v_rs_ty wr_t_: " __r m__s_r_m_nts sh_w th_t th_ s_l_d __rth th_t f_rms th_ b_s_ _f th_ _nt_rct_c_ _c_ sh__t _s ch_ng_ng sh_p_ s_rpr_s_ngly q__ckly. Th_ l_nd _pl_ft fr_m r_d_c_d _c_ _n th_ s_rf_c_ _s h_pp_n_ng _n d_c_d_s, r_th_r th_n _v_r th__s_nds _f y__rs."

R_s__rch_rs _s_d 3D m_d_ll_ng _n _n _tt_mpt t_ _sc_rt__n h_w r_s_ng s__ l_v_ls c__ld _mp_ct __rth. Th_ t__m s__d l_v_ls c__ld r_s_ b_tw__n 1.7 m_t_rs t_ 19.5 m_t_rs by 2500. McG_ll _n_v_rs_ty gl_c__l_g_st N_t_ly_ G_m_z wr_t_: "W_th n__rly 700 m_ll__n p__pl_ l_v_ng _n c__st_l _r_s_s, _nd th_ p_t_nt__l c_st _f s__-l_v_l r_s_ r__ch_ng tr_ll__ns _f d_ll_rs by th_ _nd _f th_ c_nt_ry, _nd_rst_nd_ng th_ d_m_n_ _ff_ct _f _nt_rct_c_ _c_ m_lt _s cr_c__l." Sh_ _dd_d th_t p_st-gl_c__l _pl_ft w_ll _nf__rly _ff_ct c__ntr__s d_ff_r_ntly. Sh_ s__d: "Th_s f_nd_ng h_ghl_gh_t_s th_ cl_m_t_ _nj_st_c_ t_w_r_d n_t__ns wh_s_ _m_ss__ns _r_ l_w, wh_l_ th__r _xp_s_r_ _nd v_ln_r_b_l_ty t_ s__-l_v_l r_s_ _s h_gh."

PUNCTUATE THE TEXT AND ADD CAPITALS

From <https://breakingnewsenglish.com/2408/240826-antarctica-post-glacial-uplift.html>

the continent of antarctica is rising it is due to a geological phenomenon called postglacial uplift it will have huge consequences for the whole of earth an astronomical volume of ice has melted from antarcticas glaciers this has made the continent lighter this consequently means it is slowly rising the melting glacial water is causing sea levels around the globe to rise geologist terry wilson from ohio state university wrote our measurements show that the solid earth that forms the base of the antarctic ice sheet is changing shape surprisingly quickly the land uplift from reduced ice on the surface is happening in decades rather than over thousands of years

researchers used 3d modelling in an attempt to ascertain how rising sea levels could impact earth the team said levels could rise between 17 meters to 195 meters by 2500 mcgill university glaciologist natalya gomez wrote with nearly 700 million people living in coastal areas and the potential cost of sealevel rise reaching trillions of dollars by the end of the century understanding the domino effect of antarctic ice melt is crucial she added that postglacial uplift will unfairly affect countries differently she said this finding highlights the climate injustice toward nations whose emissions are low while their exposure and vulnerability to sealevel rise is high

PUT A SLASH (/) WHERE THE SPACES ARE

From <https://breakingnewsenglish.com/2408/240826-antarctica-post-glacial-uplift.html>

The continent of Antarctica is rising. It is due to a geological phenomenon called post-glacial uplift. It will have huge consequences for the whole of Earth. An astronomical volume of ice has melted from Antarctica's glaciers. This has made the continent lighter. This consequently means it is slowly rising. The melting glacial water is causing sea levels around the globe to rise. Geologist Terry Wilson from Ohio State University wrote: "Our measurements show that the solid earth that forms the base of the Antarctic ice sheet is changing shape surprisingly quickly. The land uplift from reduced ice on the surface is happening in decades, rather than over thousands of years." Researchers used 3D modelling in an attempt to ascertain how rising sea levels could impact Earth. The team said levels could rise between 1.7 meters to 19.5 meters by 2500. McGill University glaciologist Natalia Gomez wrote: "With nearly 700 million people living in coastal areas, and the potential cost of sea-level rise reaching trillion of dollars by the end of the century, understanding the domino effect of Antarctic ice melt is crucial." She added that post-glacial uplift will unfairly affect countries differently. She said: "This finding highlights the climate injustice towards nations whose emissions are low, while their exposure and vulnerability to sea-level rise is high."

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. ANTARCTICA: Make a poster about Antarctica. Show your work to your classmates in the next lesson. Did you all have similar things?

4. RELOCATING: Write a magazine article about moving capital cities to higher ground in preparation for higher sea levels. 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 Antarctica. Ask him/her three questions about it. Give him/her three of your opinions on rising sea levels. Read your letter to your partner(s) in your next lesson. Your partner(s) will answer your questions.

ANSWERS

VOCABULARY (p.4)

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

TRUE / FALSE (p.5)

- 1 F 2 F 3 T 4 T 5 T 6 F 7 F 8 T

SYNONYM MATCH (p.5)

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

COMPREHENSION QUESTIONS (p.9)

1. Post-glacial uplift
2. An astronomical volume
3. He's a geologist
4. The base of the Antarctic ice sheet
5. Thousands of years
6. 3D modelling
7. 19.5 metres
8. Trillions of dollars
9. The domino effect
10. Climate injustice

WORDS IN THE RIGHT ORDER (p.19)

1. Due to a geological phenomenon called post-glacial uplift.
2. Have huge consequences for the whole of Earth.
3. An astronomical volume of ice has melted.
4. Solid earth that forms the base of the Antarctic.
5. Land uplift from reduced ice on the surface.
6. Ascertain how rising sea levels could impact Earth.
7. The domino effect of Antarctic melt is crucial.
8. Post-glacial uplift will unfairly affect countries differently.
9. This finding highlights the climate injustice toward nations.
10. Their vulnerability to sea-level rise is high.

MULTIPLE CHOICE - QUIZ (p.10)

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

ALL OTHER EXERCISES

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