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Sue Natali: How ancient Arctic carbon threatens everyone on the planet | TED Talk

https://www.ted.com/talks/sue_natali_how_ancient_arctic_carbon_threatens_everyone_on_the_planet

Advanced Words Only

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Session 1: Word List

arctic

adj. of or relating to the region around the North Pole or the Arctic Ocean; very cold

synonym: cold, frozen, polar

(1) **arctic** ice, (2) high **arctic**

Cold temperatures and long, dark winters characterize the **arctic** climate.

tundra

n. a vast, treeless, and typically frozen plain in the Arctic regions, where the subsoil is permanently frozen

synonym: arctic plain, permafrost, polar desert

(1) the Siberian **tundra**, (2) **tundra** biome

The Arctic **tundra** is a vast and desolate landscape with few signs of life.

heatwave

n. a prolonged period of hot and dry weather, often accompanied by high humidity and extreme temperatures; a sensation of intense heat, often caused by exposure to hot or humid conditions

(1) summer **heatwave**, (2) dangerous **heatwave**

The crops in the farming community have been significantly affected by the prolonged **heatwave**, leading to concerns about food security.

drastic

adj. radical and extreme; likely to have a significant or far-reaching impact

synonym: extreme, fierce, radical

(1) **drastic** measures, (2) make **drastic** revision

The global community is undergoing **drastic** changes at present.

eddy

n. a circular current of water or air that flows in the opposite direction to the main current, causing a small whirlpool; a current of opinion, activity, or trend that goes against the main current

synonym: whirlpool, vortex, swirl

(1) **eddy** of water, (2) **eddy** of leaves

Unfortunately, the swirling **eddy** in the river made it difficult to swim.

covariance

n. a measure of how two variables change together; a statistical concept that describes the degree to which two random variables in a set tend to deviate from their expected values in a similar way

synonym: correlation, association, interrelation

(1) **covariance** matrix, (2) positive **covariance**

The statistical software automatically calculates the **covariance** between the variables in a dataset

methane

n. a chemical compound with the chemical formula CH₄ with no smell or color, often used as a fuel

(1) atmospheric **methane**, (2) reduce **methane** emissions

The ignition of **methane** gas in the plant killed five employees.

permafrost

n. a layer of soil that is permanently below freezing, usually in polar regions

(1) **permafrost** area, (2) thawing **permafrost**

Permafrost is crucial to soil stability in arctic areas.

thaw

v. to become less rigid or hostile; to melt, soften, or become more friendly

synonym : melt, defrost, unfreeze

(1) **thaw** out a glacier, (2) **thaw** relations between countries

The sun was beginning to **thaw** the frozen ground.

expanse

n. a substance, such as water or oil, that flows freely and is neither a solid nor a gas

synonym : stretch, field, spread

(1) vast **expanse**, (2) large **expanses**

She looked over the immense **expanse** of the sea.

boreal

adj. relating to the Northern Hemisphere or relating to the northern forests called taiga

synonym : arctic, northern, tundra

(1) **boreal** conifer, (2) **boreal** ecosystem

The **boreal** forest covers vast areas of Canada and Alaska.

lifeway

n. a particular way of living, often associated with a certain culture, region, or community; a set of guiding principles or beliefs that inform one's lifestyle or worldview

synonym : belief system, spirituality, religion

(1) spiritual **lifeway**, (2) healthy **lifeway**

The **lifeway** of indigenous peoples often involves close ties to nature and the land.

bliss

n. extreme happiness or joy

synonym : delight, euphoria, happiness

(1) ignorance is **bliss**, (2) ultimate **bliss**

The first two years of her marriage were sheer **bliss**.

policymaker

n. a person in charge of or involved in developing action plans for a political party, business, etc.

synonym : lawmaker, legislator

(1) education **policymaker**, (2) regional **policymaker**

Policymakers struggle to develop various laws and

regulations to address international trade conflicts.

catastrophic

adj. extremely harmful; causing physical or financial destruction

synonym: fatal, disastrous, destructive

(1) victim of **catastrophic** injuries, (2) **catastrophic** climate change

The extinction rate of aquatic animals was **catastrophic**.

enormity

n. the quality of being extremely evil or wicked; the vastness of size or extent

synonym: horribleness, seriousness, immensity

(1) grasp the **enormity**, (2) the **enormity** of the task

The **enormity** of the financial fraud was uncovered after years of investigation.

trajectory

n. the curved path followed by an object moving through space

synonym: course, curve, orbit

(1) career **trajectory**, (2) a **trajectory** missile

The company has shown an excellent growth **trajectory** over the years.

unwitting

adj. without purpose or intent

synonym: unknowledgeable, inadvertent, unintended

(1) **unwitting** victims, (2) an **unwitting** mistake

His rudeness was **unwitting**, not intentional.

cocreate

v. to create something by working with others

(1) **cocreate** our life, (2) **cocreate** a relationship

We form partnerships to **cocreate** customer value.

well-being

n. the state of being happy and healthy and prosperous

synonym: health, welfare, happiness

(1) the **well-being** of a nation, (2) a sense of **well-being**

We are responsible for the care and **well-being** of all our

employees.

Session 2: Spelling

- | | |
|-------------------------------------|--|
| 1. t__w relations between countries | <i>v.</i> to become less rigid or hostile; to melt, soften, or become more friendly |
| 2. dangerous he____ve | <i>n.</i> a prolonged period of hot and dry weather, often accompanied by high humidity and extreme temperatures; a sensation of intense heat, often caused by exposure to hot or humid conditions |
| 3. the wel_____ng of a nation | <i>n.</i> the state of being happy and healthy and prosperous |
| 4. un_____ng victims | <i>adj.</i> without purpose or intent |
| 5. healthy li_____y | <i>n.</i> a particular way of living, often associated with a certain culture, region, or community; a set of guiding principles or beliefs that inform one's lifestyle or worldview |
| 6. summer he____ve | <i>n.</i> a prolonged period of hot and dry weather, often accompanied by high humidity and extreme temperatures; a sensation of intense heat, often caused by exposure to hot or humid conditions |
| 7. victim of cat_____hic injuries | <i>adj.</i> extremely harmful; causing physical or financial destruction |
| 8. ultimate bl__s | <i>n.</i> extreme happiness or joy |
| 9. a sense of wel_____ng | <i>n.</i> the state of being happy and healthy and prosperous |
| 10. cat_____hic climate change | <i>adj.</i> extremely harmful; causing physical or financial destruction |

ANSWERS: 1. thaw, 2. heatwave, 3. well-being, 4. unwitting, 5. lifeway, 6. heatwave, 7. catastrophic, 8. bliss, 9. well-being, 10. catastrophic

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|-------------------------------|--|
| 11. reduce me_____e emissions | <i>n.</i> a chemical compound with the chemical formula CH ₄ with no smell or color, often used as a fuel |
| 12. per_____st area | <i>n.</i> a layer of soil that is permanently below freezing, usually in polar regions |
| 13. thawing per_____st | <i>n.</i> a layer of soil that is permanently below freezing, usually in polar regions |
| 14. dr_____c measures | <i>adj.</i> radical and extreme; likely to have a significant or far-reaching impact |
| 15. co_____te our life | <i>v.</i> to create something by working with others |
| 16. ar____c ice | <i>adj.</i> of or relating to the region around the North Pole or the Arctic Ocean; very cold |
| 17. career tra_____ry | <i>n.</i> the curved path followed by an object moving through space |
| 18. an un_____ng mistake | <i>adj.</i> without purpose or intent |
| 19. spiritual li_____y | <i>n.</i> a particular way of living, often associated with a certain culture, region, or community; a set of guiding principles or beliefs that inform one's lifestyle or worldview |
| 20. grasp the en_____ty | <i>n.</i> the quality of being extremely evil or wicked; the vastness of size or extent |
| 21. bo____l ecosystem | <i>adj.</i> relating to the Northern Hemisphere or relating to the northern forests called taiga |
| 22. co_____te a relationship | <i>v.</i> to create something by working with others |

ANSWERS: 11. methane, 12. permafrost, 13. permafrost, 14. drastic, 15. cocreate, 16. arctic, 17. trajectory, 18. unwitting, 19. lifeway, 20. enormity, 21. boreal, 22. cocreate

23. ignorance is bl__s *n.* extreme happiness or joy
24. regional pol_____er *n.* a person in charge of or involved in developing action plans for a political party, business, etc.
25. e__y of leaves *n.* a circular current of water or air that flows in the opposite direction to the main current, causing a small whirlpool; a current of opinion, activity, or trend that goes against the main current
26. the Siberian tu___a *n.* a vast, treeless, and typically frozen plain in the Arctic regions, where the subsoil is permanently frozen
27. education pol_____er *n.* a person in charge of or involved in developing action plans for a political party, business, etc.
28. e__y of water *n.* a circular current of water or air that flows in the opposite direction to the main current, causing a small whirlpool; a current of opinion, activity, or trend that goes against the main current
29. positive cov_____ce *n.* a measure of how two variables change together; a statistical concept that describes the degree to which two random variables in a set tend to deviate from their expected values in a similar way
30. vast ex_____e *n.* a substance, such as water or oil, that flows freely and is neither a solid nor a gas

ANSWERS: 23. bliss, 24. policymaker, 25. eddy, 26. tundra, 27. policymaker, 28. eddy, 29. covariance, 30. expanse

31. the en____ty of the task
n. the quality of being extremely evil or wicked; the vastness of size or extent
32. atmospheric me____e
n. a chemical compound with the chemical formula CH₄ with no smell or color, often used as a fuel
33. bo____l conifer
adj. relating to the Northern Hemisphere or relating to the northern forests called taiga
34. tu____a biome
n. a vast, treeless, and typically frozen plain in the Arctic regions, where the subsoil is permanently frozen
35. high ar____c
adj. of or relating to the region around the North Pole or the Arctic Ocean; very cold
36. t__w out a glacier
v. to become less rigid or hostile; to melt, soften, or become more friendly
37. make dr____c revision
adj. radical and extreme; likely to have a significant or far-reaching impact
38. large ex____es
n. a substance, such as water or oil, that flows freely and is neither a solid nor a gas
39. a tra____ry missile
n. the curved path followed by an object moving through space
40. cov____ce matrix
n. a measure of how two variables change together; a statistical concept that describes the degree to which two random variables in a set tend to deviate from their expected values in a similar way

ANSWERS: 31. enormity, 32. methane, 33. boreal, 34. tundra, 35. arctic, 36. thaw, 37. drastic, 38. expanse, 39. trajectory, 40. covariance

ANSWERS:

Session 3: Fill in the Blanks

1. The extinction rate of aquatic animals was _____.
adj. extremely harmful; causing physical or financial destruction
2. Cold temperatures and long, dark winters characterize the _____ climate.
adj. of or relating to the region around the North Pole or the Arctic Ocean; very cold
3. _____ is crucial to soil stability in arctic areas.
n. a layer of soil that is permanently below freezing, usually in polar regions
4. We form partnerships to _____ customer value.
v. to create something by working with others
5. The ignition of _____ gas in the plant killed five employees.
n. a chemical compound with the chemical formula CH₄ with no smell or color, often used as a fuel
6. The _____ forest covers vast areas of Canada and Alaska.
adj. relating to the Northern Hemisphere or relating to the northern forests called taiga
7. The _____ of the financial fraud was uncovered after years of investigation.
n. the quality of being extremely evil or wicked; the vastness of size or extent
8. His rudeness was _____ not intentional.
adj. without purpose or intent
9. We are responsible for the care and _____ of all our employees.
n. the state of being happy and healthy and prosperous

ANSWERS: 1. catastrophic, 2. arctic, 3. Permafrost, 4. cocreate, 5. methane, 6. boreal, 7. enormity, 8. unwitting, 9. well-being

10. The crops in the farming community have been significantly affected by the prolonged _____ leading to concerns about food security.
- n.* a prolonged period of hot and dry weather, often accompanied by high humidity and extreme temperatures; a sensation of intense heat, often caused by exposure to hot or humid conditions
11. She looked over the immense _____ of the sea.
- n.* a substance, such as water or oil, that flows freely and is neither a solid nor a gas
12. The company has shown an excellent growth _____ over the years.
- n.* the curved path followed by an object moving through space
13. Unfortunately, the swirling _____ in the river made it difficult to swim.
- n.* a circular current of water or air that flows in the opposite direction to the main current, causing a small whirlpool; a current of opinion, activity, or trend that goes against the main current
14. The global community is undergoing _____ changes at present.
- adj.* radical and extreme; likely to have a significant or far-reaching impact
15. The _____ of indigenous peoples often involves close ties to nature and the land.
- n.* a particular way of living, often associated with a certain culture, region, or community; a set of guiding principles or beliefs that inform one's lifestyle or worldview
16. _____ struggle to develop various laws and regulations to address international trade conflicts.
- n.* a person in charge of or involved in developing action plans for a political party, business, etc.

ANSWERS: 10. heatwave, 11. expanse, 12. trajectory, 13. eddy, 14. drastic, 15. lifeway, 16. Policymakers

17. The first two years of her marriage were sheer _____.

n. extreme happiness or joy

18. The sun was beginning to _____ the frozen ground.

v. to become less rigid or hostile; to melt, soften, or become more friendly

19. The statistical software automatically calculates the _____ between the variables in a dataset

n. a measure of how two variables change together; a statistical concept that describes the degree to which two random variables in a set tend to deviate from their expected values in a similar way

20. The Arctic _____ is a vast and desolate landscape with few signs of life.

n. a vast, treeless, and typically frozen plain in the Arctic regions, where the subsoil is permanently frozen

ANSWERS: 17. bliss, 18. thaw, 19. covariance, 20. tundra