



Daily Article (Bharath's Reading list) - Answers and Explanations 09.04.2024

Article link : [Link](#) (World record temperature jump in Antarctic raises fears of catastrophe)

1. Disturbing meteorological anomalies on Antarctica over the past two years have been attributed to all the following except:

- A. Warm, moist air from lower latitudes being carried deep into the continent by poleward winds
- B. Increasing levels of algae under and around sea ice in west Antarctica leading to decreasing levels of krill depositing carbon on the ocean floor
- C. Rising levels of greenhouse gases in the atmosphere leading to an abrupt critical transition in the continent's climate
- D. The dark waters that used to lie below the Antarctic ice sheets being exposed and solar radiation no longer being reflected back into space, resulting in further heating of the oceans

Explanation : B

All options except B are true. The article states that algae under and around sea ice in west Antarctica have decreased and this decrease has led to decreasing levels of krill which feed on the algae. Option B is incorrect.

2. The predictions on impact of global warming on Antarctica is especially not very accurate because:

- A. Historically, we have had problems getting information about the Antarctic weather and ecosystem, compared with the data we get from the rest of the world as Antarctica is remote and hostile
- B. Our records are comparatively short and that means that the climate models we have created, though very capable, are based on sparse data
- C. Though climate models on Antarctica make coherent predictions, they cannot capture the sort of extremes that we're now beginning to observe
- D. All the above



Explanation: D

All given reasons are mentioned in the article.

3. Based on the article, which of the following is correct?

- A. Levels of sea ice which float on the oceans around Antarctica have plunged steadily over the last century
- B. As the ice sheets and glaciers of west Antarctica continue to shrink, there is now a real danger of a 60 m sea level rise in the next few decades
- C. Thousands of emperor penguin chicks drowned in 2022 when the sea-ice broke up before they could fully fledge
- D. All the above

Explanation: C

Only option C is true. Option A is incorrect: '...levels of sea ice, which float on the oceans around the continent, have plunged dramatically, having remained stable for more than a century.' Option B is also incorrect. According to the article, though the melting of ice sheets around Antarctica could possibly cause a 60m rise, such an apocalypse is unlikely to occur for some time.