

Checklist

What you should know

After studying this subtopic you should be able to:

- Define anthropogenic climate change and describe its causes.
- Outline the positive feedback cycles in global warming, with examples.
- Describe the transition from net carbon accumulation to net loss in boreal forests as an example of a tipping point.
- Explain the melting of landfast ice and sea ice as examples of polar habitat change.
- Explain the effects of climate change on ocean currents and nutrient distribution.
- Understand the effect of climate change on range shifts of temperate species and coral reefs.
- Evaluate afforestation, forest regeneration and restoration of peat-forming wetlands as approaches to carbon sequestration.

Higher level (HL)

- Define phenology and outline the disruption of phenological events caused by climate change.
- Explain how climate change can lead to increases in the number of insect life cycles.
- Discuss the concept of evolution as a consequence of climate change.

