

Name: _____

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LAB EXERCISE

Climate Change

Lab Exercises and Activities

SECTION 1

Paleoclimate

1. How many years of data are displayed from the EPICA ice core?
555,000 years (or 555,000 years)
2. What are the maximum and minimum temperature anomalies recorded? What is the range of temperature anomalies over this record?
Max 3.4°C; min -10.5°C; range 13.9°C
3. How many interglacial times (when the temperature deviation reached 0°C or greater) do you detect over the past 450,000 years? What is the average time between interglacials?
5 interglacials over 0°C; roughly 100,000 years
4. How much has CO₂ varied in the EPICA record? What were the highest and lowest values? What was the range of CO₂ values?
CO₂ has varied from 280 ppm down to 170 ppm, for a range of 110 ppm.
5. How many times has CO₂ exceeded 270 ppm in the past 450,000 years?
CO₂ has exceeded 270 ppm five times in the past 450,000 years.
6. What is the period from peak to peak with regard to CO₂ and for temperature for the past 450,000 years?
They have both fluctuated on a cycle of approximately 100,000 years.
7. Interglacial-glacial period climate cycles are often referred to as appearing saw-toothed, with an abrupt change followed by a more gradual change. When do we see an abrupt change when going from interglacial to glacial times or when going from glacial to interglacial times? When do we see a gradual change?
The abrupt change is seen going from glacial to interglacial conditions, while the return to glacial conditions is more gradual.

Examine **Figure 18.3**. The Vostok ice core is 3310 m (10,860 ft) long. The full record extends back to 422,000 years before the present. The figure shows CO₂ in parts per million (ppm) and temperature anomalies in Celsius degrees.

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