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# 18

## LAB EXERCISE

# Climate Change

### Lab Exercises and Activities

#### SECTION 1

##### Paleoclimate

- How many years of data are displayed from the EPICA ice core?  
*295,000 years for 893,000 years!*
- What are the maximum and minimum temperature anomalies recorded? What is the range of temperature anomalies over this record?  
*Max 5.4°C; min -29.3°C; range 34.7°C*
- How many interglacial times (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 4°C\*; roughly 166,000 years*
- How much has CO<sub>2</sub> varied in the EPICA record? What were the highest and lowest values? What was the range of CO<sub>2</sub> values?  
*CO<sub>2</sub> has varied from 180 ppm down to 172 ppm for a range of 120 ppm.*
- How many times has CO<sub>2</sub> exceeded 270 ppm in the past 450,000 years?  
*CO<sub>2</sub> has exceeded 270 ppm five times in the past 450,000 years.*
- What is the period from peak to peak with regard to CO<sub>2</sub> and for temperature for the past 450,000 years?  
*They have both fluctuated in a cycle of approximately 100,000 years.*
- 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 18.2**. The Vostok ice core is 3210 m (10,500 ft) long. The full record extends back to 422,000 years before the present. The figure shows CO<sub>2</sub> in parts per million (ppm) and temperature anomalies in Celsius degrees.

# Geography Lab Answer Key Christopherson

**Rose Arny**

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