

3) What is "proxy data"? What are some of the sources of proxy data that scientists use to study climate change?

How far can scientists go back in time and still have confidence in the climate record?

4) Scientists have used proxy data sources to reconstruct what our climate has looked like over the past half-million years. Examine the historical and present climate data. What is the relationship between CO₂ and temperature?

Before today, what were the highest levels of CO₂ recorded?

What are the most recent CO₂ levels measured?

5) Climate scientists use complicated computer models to better understand our climate and to predict climate change in the future. What have these models told us about future climate change?

What are some of the factors that cause different models to produce different projections?
