

# Holocene variation in global temperature and in concentration and $\delta^{13}\text{C}$ of atmospheric $\text{CO}_2$

These three plots show that unprecedented warming of global climate in the past few decades (upper panel) coincided with an unprecedented increase in the concentration of  $\text{CO}_2$  in the atmosphere (lower panel, blue, green, and red). Measurements of the ratio of  $^{13}\text{C}$  to  $^{12}\text{C}$  ( $\delta^{13}\text{C}$ ) in atmospheric  $\text{CO}_2$  (lower panel, purple and magenta) demonstrate that the  $\text{CO}_2$  came from organic carbon, not volcanoes.

