

Begin to harvest the Antarctic ice by drilling a deep hole in the ice sheet, as it separates the ice core into shorter segments. Once the ice core segments are stored and transported to the lab bench. Systematically melt the core segments with a heated wire wrapped around the core inside a gas chamber. Suck the gas into a canister. Next perform mass spectrometry on the gas in the canister corresponding to the segment. Lastly, calculate the ratio of oxygen isotopes in the gas, correlated with average atmospheric temperature when air bubbles are trapped in the ice by graphing the average air temperature versus time over the centuries.