

Andrea Wainwright

Convert to passive voice and eliminate ambiguous words

First, you harvest the Antarctic ice by drilling a fairly deep hole in the ice sheet, and you separate the ice core into somewhat shorter segments. After you store the ice core segments and transport them to the lab bench, you systematically melt the core segments with a very hot wire wrapped around the core inside a gas chamber. You suction the gas into a canister. Second, you perform mass spectrometry on the gas in the canister corresponding to the segment. Finally, you calculate the ratio of oxygen isotopes in the gas, which is somewhat correlated with average atmospheric temperature when air bubbles were trapped in the ice. Since you know that the deeper the air bubbles, the older the air trapped inside, you can graph the average air temperature versus time over the centuries.

First, Antarctic ice is harvested by drilling a deep hole in the ice sheet. The ice core is then separated into shorter segments. The ice core segments are stored and transported to a lab bench where they are systematically melted inside a gas chamber with a hot wire wrapped around them. Second, the gas is suctioned into a canister, and mass spectrometry is performed corresponding to the segment. Finally, The ratio of oxygen isotopes in the gas is calculated, which is correlated with average atmospheric temperature when air bubbles were trapped in the ice. The deeper the air bubbles are in the ice, the older the air inside is. Therefore, the average air temperature versus the time over centuries can be graphed.