





A Temperature ($\delta^{18}O, \delta^{2}H$) Atmospheric Chemistry В **Net Accumulation** C Dustiness of Atmosphere E Vegetation Changes F Volcanic History Anthropogenic Emissions G **Entrapped Microorganisms** Н

Environmental Data Include:









Ice core dating activity

 You will be given data from the Crawford Point, Greenland ice core







Task 1: Study the data in front of you and list 5 observations about these data.

Consider trends or patterns in the data. Consider how these proxy data relate to the climate.



History of Nuclear Testing





This will give you the known age of the ice at a certain depth (a reference horizon).

located



Task 3: Determine the year in which the ice core was drilled (the year at 0 m).

Given the nuclear reference horizon, devise a strategy to determine the age of ice at the top.

Consider your proxy data and the patterns they display.

