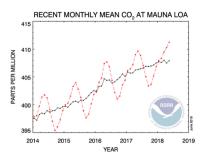
- 7) The figure shows monthly mean CO2 levels (ppm) at the NOAA Mauna Loa laboratory over the period Jan 2014 to May 2018 (4 years, 5 months). The red line gives monthly values that include seasonal variations; the black curve gives the long-term trend with the seasonal cycle removed. Dots are the mean for the month. Click the figure caption to see a larger readable version of the graph, and use the larger figure to answer the following questions.
 - What was the average annual rate of increase in CO2 in ppm per year for the period 1 Jan 2014 to 1 Jan 2018?
 - b) How large is the seasonal increase in CO2 (to the Click link to get most recent graph. nearest whole ppm) at its peak value from its value 6 months earlier? How large is the seasonal decrease from its value 7 months earlier? Your answers must be consistent with your answer in part a).
 - In which month is the average CO2 concentration the highest? In which month is it the lowest?
 - d) What is the physical cause for a seasonal cycle of CO2? Explain. (Research the answer yourself.)



CO2 levels at the top of Mauna Loa HI. Units are in parts per million (ppm).