**Appendix: Data Set for Lesson**

Table 1: shows the monthly average levels of carbon dioxide in ppm measured at Mauna Loa, Hawaii, since 2006.

|  |  |
| --- | --- |
|  | ***Mean monthly CO2 levels (ppm)*** |
| ***Month/year*** | ***2006*** | ***2007*** | ***2008*** | ***2009*** | ***2010*** | ***2011*** | ***2012*** | ***2013*** |
| ***1***  | *381.38*  | *382.89*  | *385.44*  | *386.94*  | *388.50*  | *391.25*  | *393.12*  | *395.51*  |
| ***2***  | *382.19*  | *383.90*  | *385.73*  | *387.42*  | *389.94*  | *391.82*  | *393.60*  | *396.79*  |
| ***3***  | *382.67*  | *384.58*  | *385.97*  | *388.77*  | *391.09*  | *392.49*  | *394.45*  | *397.31*  |
| ***4***  | *384.61*  | *386.50*  | *387.16*  | *389.44*  | *392.53*  | *393.34*  | *396.18*  | *398.35*  |
| ***5***  | *385.03*  | *386.56*  | *388.50*  | *390.19*  | *393.04*  | *394.21*  | *396.78*  | *399.76*  |
| ***6***  | *384.05*  | *386.10*  | *387.88*  | *389.45*  | *392.15*  | *393.72*  | *395.83*  | *398.58*  |
| ***7***  | *382.46*  | *384.50*  | *386.43*  | *387.78*  | *390.22*  | *392.42*  | *394.30*  | *397.20*  |
| ***8***  | *380.41*  | *381.99*  | *384.15*  | *385.92*  | *388.26*  | *390.19*  | *392.41*  | *395.15*  |
| ***9***  | *378.85*  | *380.96*  | *383.09*  | *384.79*  | *386.83*  | *389.04*  | *391.06*  | *393.51*  |
| ***10***  | *379.13*  | *381.12*  | *382.99*  | *384.39*  | *387.20*  | *388.96*  | *391.01*  | *393.66*  |
| ***11***  | *380.15*  | *382.45*  | *384.13*  | *386.00*  | *388.65*  | *390.24*  | *392.81*  | *395.11*  |
| ***12***  | *381.82*  | *383.95*  | *385.56*  | *387.31*  | *389.73*  | *391.83*  | *394.28*  | *396.81*  |
|  |  |  |  |  |  |  |  |  |
|  | ***2014*** | ***2015*** | ***2016*** | ***2017*** | ***2018*** |  |  |  |
| ***1***  | *397.80*  | *399.96*  | *402.52*  | *406.13*  | *407.88* |  |  |  |
| ***2***  | *397.91*  | *400.26*  | *404.04*  | *406.42*  | *408.61* |  |  |  |
| ***3***  | *399.58*  | *401.52*  | *404.83*  | *407.18*  | *409.35* |  |  |  |
| ***4***  | *401.29*  | *403.26*  | *407.42*  | *409.00*  | *410.80* |  |  |  |
| ***5***  | *401.77*  | *403.96*  | *407.70*  | *409.65*  | *411.48* |  |  |  |
| ***6***  | *401.15*  | *402.80*  | *406.81*  | *408.84*  | *410.8* |  |  |  |
| ***7***  | *399.00*  | *401.30*  | *404.39*  | *407.07*  | *409.05* |  |  |  |
| ***8***  | *397.01*  | *398.82*  | *402.25*  | *405.07*  | *407.07* |  |  |  |
| ***9***  | *395.26*  | *397.64*  | *401.03*  | *403.38*  | *405.48* |  |  |  |
| ***10***  | *395.93*  | *398.29*  | *401.57*  | *403.64*  | *406.00* |  |  |  |
| ***11***  | *397.13*  | *400.16*  | *403.53*  | *405.14*  | *407.98* |  |  |  |
| ***12***  | *398.78*  | *401.85*  | *404.42*  | *406.82*  | *409.27* |  |  |  |

***Resources***

*Our Changing Atmosphere www.exploratorium.edu/snacks/our-changing-atmosphere https://www.exploratorium.edu/snacks/our-changing-atmosphere*