Climate Change – Fact or fiction?

Use data given to you in an Excel spreadsheet, **as well as data you find on your own**, to provide mathematical arguments to support or deny at least four of the following questions:

* Our planet is getting warmer
* The pace at which our planet is getting warmer is increasing
* The number of extreme weather events and strong storms is increasing
* Climate change and the amount of carbon dioxide in the atmosphere are correlated
* Sea levels are increasing at an unprecedented rate
* 350 ppm of carbon dioxide in the atmosphere is the safe upper limit to avoid a climate change tipping point – what temperatures should we expect at that level, and is that agreed to be a problem?
* Any other claims you have heard or want to investigate.

Create models that answer these questions. Discuss potential problems with your model. Predict levels of whatever metric you are looking at for 30 years from now.

Summarize what you have learned and what you would like to know more about.