Greenhouse Practice Test

Carry out a statistical investigation to determine patterns in the amount of Greenhouse Gases and use your analysis to make predictions. Write a report describing your investigation.

Use the following steps to conduct your investigation and write your report.

1. Select at least one of the variables (Methane or Carbon Dioxide) to investigate.
2. Display data appropriately.
3. Identify features of time series and relate this to context.
4. Select an appropriate model for prediction purposes.
5. Use the model to make predictions. Describe at least one prediction value in context.
6. Write a conclusion. Support your conclusion by referring to your analysis and/or features of the visual display(s). Include a reflection on your process, which could consider –

-other relevant variables

-adequacy of model

-validity/accuracy of forecasts

-comparison/investigation of more than one series

-comparison/investigation of a transformed series

- in-depth understanding of the data context

In writing your report, link your discussion to the context and support the statements you make by referring to statistical evidence.

Context/setting

This activity requires students to investigate the changes in the atmospheric concentrations of two Greenhouse gases.

It is important to know why Greenhouse gas concentrations are important and how they impact global environmental patterns.