

Sample Exercise Instructions

1. Locate and download data sets you have been given access to
 - a. MET Office Weather Data.csv

The MET Office has been responsible for monitoring UK Weather since its inception in 1854. 36 stations in the UK (often located in RAF bases) gather information that is used to predict future weather patterns and issue public advice. More recently, these large datasets have become useful to investigate how the UK climate has changed over the past 150+ years.

2. Open the data sets and review the structure of the data.
(column and row headings).

Columns:

- year: Year in which the measurements were taken
- month: Month in which the measurements were taken
- tmax: Mean daily maximum temperature (°C)
- tmin: Mean daily minimum temperature (°C)
- af: Days of air frost recorded that month (days)
- rain: Total rainfall (mm)
- sun: Total sunshine duration (hours)
- station: Station location where measurement was recorded

Some sections include significant amounts of NA values. Note that a 0 entry does not denote an NA value but a score of 0 in that measured field.

3. Has the UK climate changed since the Victorian era?
How does any climate change impact the UK in terms of weather risks?
Are some regions more affected than others?