**The Large Data Set**

**Locations**

5 UK weather stations

3 overseas

**Time Periods**

May – October 1987 (6 months)
May – October 2015 (6 months)

**Seasons**

May/June are the end of spring
July-Sept is summer
October is autumn

Perth (Australia) is in the southern hemisphere, so July-Sept is winter

**UK Great Storm**

The night of 15-16th October 1987
Gusts up to 100 knots recorded

**Florida hurricanes**

12 October 1987 Hurricane Floyd
1-2 October 2015 Hurricane Joaquin

**Variables Recorded**

- **Daily Maximum Temperature**
  - °C

- **Daily Total Rainfall**
  - mm

- **Daily Total Sunshine**
  - hours

- **Daily Maximum Relative Humidity**
  - %; mist and fog if > 95%

- **Daily Mean Windspeed**;
  - **Daily Maximum Gust**
  - knots (1kn = 1.15mph)
  - and Beaufort scale

- **Daily Mean Wind Direction**;
  - **Daily Maximum Gust Direction**
  - bearing (°)
  - and cardinal direction

- **Cloud Cover**
  - oktas (eighths); 0 – 8

- **Visibility**
  - Dm (decametres)
  - 1 Dm =10 m

- **Pressure**
  - hPa (hectoPascal)
  - 1 hPa = 100 Pa

- **n/a**
  - reading not available

- **tr (trace)**
  - rainfall < 0.05mm

**Beaufort Scale**

Discrete, scale of 13 values:
0 (calm, < 1kn)
12 (hurricane, 64kn+)

**Cardinal Directions**

**Oktas**

Eighths of the sky covered by cloud
Discrete, scale of 9 values:
0 (clear sky)
8 (completely overcast)

**Sources**

Maps: Pearson
Compass: mathsmutt.co.uk