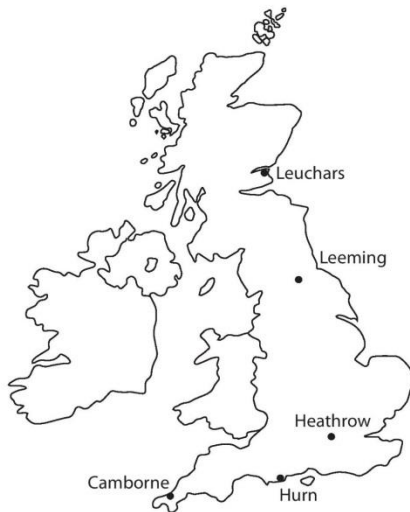


The Large Data Set

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

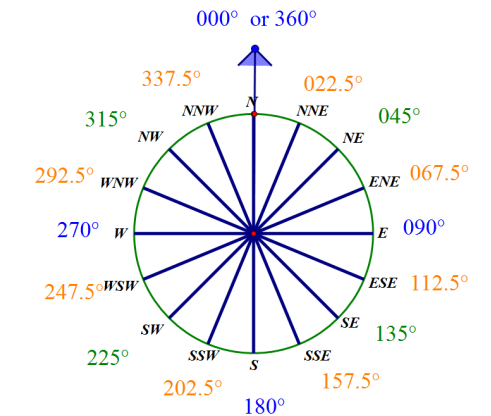
n/a
reading not available

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