The Big Earth Data Project

# Lesson 3: Identifying regions in scatter diagrams

### Interpreting scatter diagrams and correlation coefficients

* What type of correlation is shown in each diagram (positive/negative)?
* Which show that strongest correlation?
* Ozone starts to break down when the temperature is below -78°C and there is sufficient sunlight. Are the scatter diagrams consistent with this?

A diagram of a graph

Description automatically generated with medium confidenceCorrelation coefficient:

A diagram of a graph

Description automatically generated with medium confidence  
Correlation coefficient:

### Finding regions is scatter plots

* What patterns are there in the diagrams?

A graph with numbers and points

Description automatically generated with medium confidence

A graph of different colored dots

Description automatically generated

**Exploring the correlation in a region of a scatter plot**

* Which shows the strongest and which show the weakest correlation?
* How does this compare to the correlation for the data for the whole of spring?

A diagram of a diagram

Description automatically generated with medium confidenceCorrelation coefficient:   
  
A graph of a diagram

Description automatically generated with medium confidence  
Correlation coefficient:

A graph with blue dots

Description automatically generated  
Correlation coefficient: