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?

Correlation coefficient: $r=-0.477$


Correlation coefficient: $r=-0.686$

### Finding regions is scatter plots

* What patterns are there in the diagrams?





**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?

Correlation coefficient: $r=-0.615$


Correlation coefficient: $r=-0.886$


Correlation coefficient: $r=-0.883$