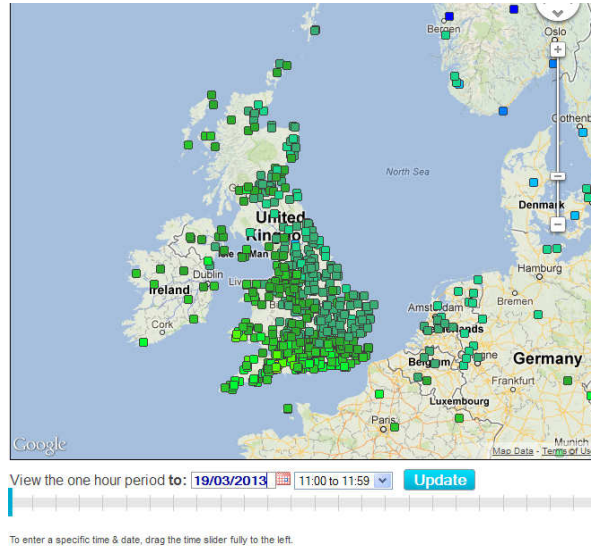


## A Case Study of a Weather System using WOW data

Go to the WOW website [wow.metoffice.gov.uk](http://wow.metoffice.gov.uk).

By sliding the time slider bar all the way to the left, you are able to enter a specific date to look at.



Use the pop up calendar to select 8<sup>th</sup> December 2011 and the drop down box to choose 0600 to 0659 in the morning.

Use the Layers menu on the right to select wind speed.

Where is the wind coming from?

Is the wind weak or strong?

Change the time to 1200-1259. How does the wind look now?

Change the time to 1800-1859. How does the wind look now?

Now use the layers menu on the right to look at temperature.

At 0600-0659, what are the temperatures across the UK?

Capture the image, stick it into a work book at draw a line roughly dividing colder and warmer temperatures. What is a line dividing cold and warm temperatures called?

Now look at the temperature between 1200-1259. What is the pattern of temperatures?

Capture the image, stick it into a work book at draw a line dividing colder and warmer temperatures.

**For Stronger Students:**

Find the Met Office Weather Station in Glen Ogle in the Highlands of Scotland, and click on it. Click on 'View Observation' and then on 'Graph View' and use the calendars to select from 8/12/11 to 9/12/11. How does the air temperature change?

Now look at the temperature between 1800-1859. What is the pattern of temperatures?

Capture the image, stick it into a work book and draw a line dividing colder and warmer temperatures.

Now use the Layers Menu to select rainfall rate at 1800-1850. Where is it raining?

Go back in time, hour by hour, what happens to where the rain is?

Now use the layers menu to select 'pressure' and investigate how that changes through the day.

Summarise what you think is going on with the weather on the 8<sup>th</sup> December 2011.