Using the UK Air Data Archive for Your Own Research: Step-by-step Guidance on Accessing Data

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Introduction

The data archive is enormous. That said, NOT all monitoring sites will monitor:

- all the pollutants
- during all the periods of interest
- the frequency of monitoring desired
- in the geographical (British Isles) places you want
- in the environments needed

Your first task will be to look to see what data are available.



Some comments about the site. It contains a vast amount of information. The buttons that you need to push are not always evident on the bit of the page you are looking at. You may need to scroll to the top again or even further down page you are looking at.

As with most things in life, the more time and effort you put in, the more you get out. This document will just allow you to scratch the surface.

Getting started

Go to https://uk-air.defra.gov.uk/data/

Beneath Data Archive (right hand side menu), select Data availability (3rd item down).

For this example, we will search for information about the PM₁₀ particulate levels in Bristol.

The dropdown box allows choice of data. You will need to play around with this to see the availability of pollutant data.

For this example, we will choose the Automatic Urban and Rural Monitoring Network (AURN)'. Click the green Step 1 box to proceed.

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The **Select a Region** function allows you to home in on the place you want via several geographical area types including country, region or local authority. For now, select Local Authority. Later you will be able to select which area or city within the local authority.

The **Select a Parameter** box gives you a choice of pollutant. I am looking for PM_{10} . Make a choice, for example PM_{10} particulate matter (hourly measured), and click the Green Step 2 button.

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If no data is available, you will be told that on the appropriate choice button:

Select a Parameter No data available for this selection Now you can choose which geographical area you are interested in.

Select the **Sub Zone**, in this case, Bristol City Council. Click the green Step 3 button.

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	Step 3	UK Ambient Air Quality Interactive Map			
		Modelled air quality data			
		Openair - data analysis tool			

We have a choice of monitoring sites, but we don't know which are monitoring when, so we will select them all. Click the green Step 4 button.

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Now we can click Get Data to see what data is available.

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If no data is available, you will be told that on the appropriate choice button:

Select Monitoring Site No data available for this selection If data is available, you will see a screen like this:

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Note: Bristol Centre data ended in 2005.

We want to see more recent data (2018) so we will choose Bristol St Paul's.

Hit Data Selector on the RHS menu. This takes us to <u>https://uk-air.defra.gov.uk/data/data_selector</u>

Again, there is a choice of data.

Choose one of the networks.

We want hourly data. Hit the green Start now button.

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Decision time: you will need to select many options.

Start at the top: Select Data Type.

From the list, you can only choose one option each time.

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Here we have chosen Daily Mean.

Click the Green Save Selection button.

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Now work down the list of selection options.

Select Date Range allows you to choose different periods of time.

Here we used the **Custom Data** option to select start and finish dates, via the calendars provided.

Click the Green Save Selection button.



Select Monitoring Sites

We selected the site by first going to Local Authority (we could have gone via country or region), then in a second box, selected St Paul's.

We repeat this process: choose Local Authority, then Bristol City Council and select all.

Again, click the Green Save Selection button.

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Select the pollutants

Another choice: select by Pollutant Name - PM10

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Note: there can be different types of PM_{10} (particulate matter, non-volatile and volatile).

We are interested in PM_{10} particulate matter.

Click the green Save Selection button.

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Now choose Output Type

Not all data allows results to be emailed. We chose **Data to Screen**.

Some allow a straight download of the data. Data downloads could be used to make more detailed comparisons between different locations or for different pollutants.

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On the right-hand side is now a choice of how you want the data to be presented: tabulated data or a graphical readout. Not all data will have a graphical data option.

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The tabulated or graphical data will open in a new tab.

Here is the **Graphical Data** from one of the sites we selected in Bristol.

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The graph can be saved or copied by right clicking on the image.

If you choose the **Get Data** option, you will see tabulated data.

Here is a snapshot of a huge tale of data.



Have fun!