

# ECMWF

ESoWC

## Air Quality Quality Control software

### User Manual

#### Milestone 3 Pecos Quality Control

#### Aim

Search OpenAQ dataset and Choose Pecos Quality Control criteria

1. Go to the url in a browser

[http://gordonrates.co.uk/Air\\_Quality/workshop/Apps/F\\_DATASTORE\\_A\\_IMPORT\\_SubFunct5\\_Attach\\_Compt1\\_AirQuality\\_Dataset/openaq-browser/src/index2\\_copy.html#/latest](http://gordonrates.co.uk/Air_Quality/workshop/Apps/F_DATASTORE_A_IMPORT_SubFunct5_Attach_Compt1_AirQuality_Dataset/openaq-browser/src/index2_copy.html#/latest)

OpenAQ Browser Cities Countries Fetches Latest Locations Measurements Parameters Sources Graph 3D Graph Docs

<https://api.openaq.org/v1/latest>

**Place & Parameter**

Country: All countries

City: All cities

Location: All locations

Parameter: All parameters

**Pagination**

Page: 1

Limit: 100

**Filters**

Coordinates: latitude,longitude

Radius: 2500

Nearest:

Geo Filter: Don't filter

Fetch Data

2.
  - a. To Choose openAQ stations attributes click on locations and complete the selection boxes that are similar to those used to choose the latest measurements

Or

- b. To choose the latest measurements using this page
3. Next complete the selection boxes on the left side called 'Place & Parameter'
  4. It is recommended to choose just one parameter to reduce loading time.
  5. i. Choose the limit of amount of measurements in the Pagination selection box

ii. Filters can be applied in the filters box of Latitude and Longitude with a Radius.

iii. When complete these selections click Fetch Data

It should find the latest measurements

OpenAQ Browser

Cities

Countries

Fetches

Latest

Locations

Measurements

Parameters

Sources

Graph

3D Graph

Docs

https://api.openaq.org/v1/latest?limit=10000&country=AE&parameter=pm25

Place & Parameter

Country

United Arab Emirates

City

All cities

Location

All locations

Parameter

PM 2.5

Pagination

Page

1

Limit

10000

Filters

Coordinates

latitude,longitude

Radius

2500

Nearest

Geo Filter

Don't filter

Fetch Data

Showing 4 of 4 measurements

location	country	city	measurements			
			parameter	value	unit	lastUpdated
Abu Dhabi	AE	N/A	pm25	24	µg/m³	2020-11-08T22:00:00.000Z
Dubai	AE	N/A	pm25	57	µg/m³	2020-11-06T05:00:00.000Z
			pm25	57	µg/m³	2020-11-06T05:00:00.000Z

It displays the latest measurements for the chosen openAQ stations and parameters

6. Use the openAQ measurements to find a higher bound of measurements.
7. i. Once identified use the chosen higher bound in the Pecos Quality Control evaluation

For the user manual for Pecos Quality control open the Milestone 3 User Manual Choose Search Criteria

ii. It can be a helpful to find the 'increment' amount and lower bound.