ECMWF

ESoWC 2020

A Simple Global Air Quality Data Classification

User Manual

Aims

1 Air Quality Data Quality Control (AQDDC) Search

Implementations

Ipython Notebook of Pecos Air Quality Data Quality Control Search

https://nbviewer.jupyter.org/github/esowc/air-quality-observation-classification/blob/wegiangb-patch-1/Test1_OpenAQ_Apply_ECMWF_ESoWC_Milestone4_Pecos.ipynb

Steps are identified on ipython notebook.

Advice

1. Ensure OpenAQ dataset is uploaded

Interfaces

1 Search OpenAQ Dataset Interface

1. **Choose measurements option on toolbar**
2. **Select a sample and view OpenAQ dataset**
3. **Use to inform higher bound to use to search for outliers in OpenAQ dataset**
4. **Use the Search criteria interface to search for outliers.**

2 Display Search Criteria and Search OpenAQ dataset

1. Load to get the search of OpenAQ Dataset

   http://gordonrates.co.uk/Air_Quality/workshop/Apps/F_DATASTORE_A_IMPORT_SubFunct5_Attach_Compt1_AirQuality_Dataset/openaq-browser/src/index2_copy.html

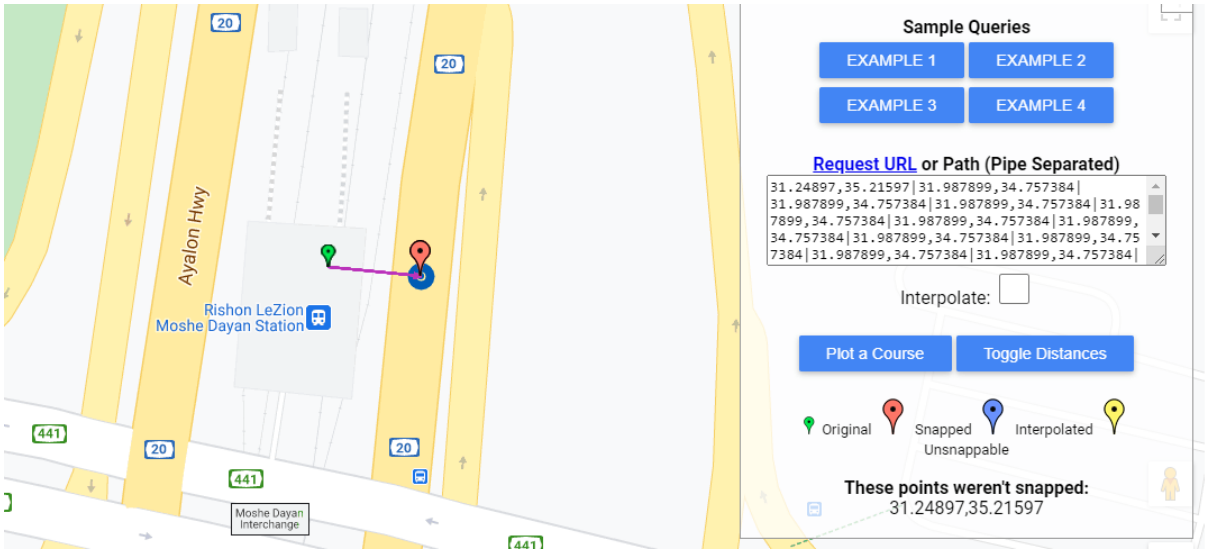
2. Choose from cities in regions or other searches
3. Scroll down to choose AQ Classification search criteria.

4. Choose Corrupt Values, Lower Bound and Higher Bound

3 Display Nearest Highway Metrics

http://gordonrates.co.uk/Air_Quality/workshop/Apps/F_DATASTORE_A_IMPORT_SubFunct5_Attach_Compt1_AirQuality_Dataset/openaq-browser/src/index4_copy.html

1. Get the lat long and input to input box
2. Choose plot course



4 Gatherminer Interface of OpenAQ dataset Outlier Results

http://gordonrates.co.uk/Air_Quality/workshop/Apps/L_IoT_SubFunct_Dashboard_Compt_DataQuality_Y/Gatherminer-master/index.html

1. Load datasets OpenAQ_1_dataset.csv to the dataset upload
2. Load attribute dataset OpenAQ_1_attr.csv to attributes upload
3. Hover over a row for an OpenAQ station

Completed By Gordon Rates of AirNode Ltd

Conclusion

Summary