



Air Quality Resource List

SUMMARY: A list of online interactive air quality tools (including air quality from space), what they include and some examples of quick starter questions for them.

Satellite Monitoring

European Space Agency (ESA)

- Maps with data from the tropospheric Monitoring Instrument (TROPOMI).
- <https://maps.s5p-pal.com/>
- Global Nitrogen Oxide and Carbon Monoxide Maps from May 2018 onwards.

NASA

- Maps and trends with data from the Ozone Monitoring Instrument (OMI)
- Nitrogen Dioxide Trends for US Cities - <https://airquality.gsfc.nasa.gov/no2>
- Nitrogen Dioxide Trend Video for the US - <https://airquality.gsfc.nasa.gov/no2/usa>
- Nitrogen Dioxide Trends for Major World Cities - <https://airquality.gsfc.nasa.gov/no2/world>

Surface Monitoring

DEFRA UK AIR

- Interactive Monitoring Network Map for the UK
- Includes the Automated Urban and Rural Network (AURN) sites.
- <https://uk-air.defra.gov.uk/interactive-map>
- UK Ambient Air Quality (AQ) Map based on air quality models and observations.
- <https://uk-air.defra.gov.uk/data/gis-mapping/>

World Air Quality Index Project – Real-time Air Quality Index

- Interactive air quality monitoring map with data from over 10,000 stations worldwide.
- <https://waqi.info/>

London Air

- Visualisation of London monitoring sites, comparing mean and peak values.
- <https://www.londonair.org.uk/LondonAir/Data-Visualisations/meanVSpk.aspx>

Forecasting

DEFRA UK AIR

- Air Pollution Forecast Map for the UK for the next 5 days.
- <https://uk-air.defra.gov.uk/forecasting/>

NASA

- Forecast maps for different pollutants in different global regions from the Global Modeling and Assimilation Office (GMAO).
- https://fluid.nccs.nasa.gov/cf/classic_geos_cf/

Quick Starter Qs

- Where are pollution hot spots around the world?
- What is the pollution like in your local area, which pollutants are the biggest problem?
- What is the pollution forecast in your local area for tomorrow?
- Select a city anywhere in the world, what is the pollution like there today, what was it like 2 years ago?