

Fieldwork Techniques for Independent Investigations

Some ideas, data sources and guidance for students wishing to include weather measurements in their NEA.

A guide to collecting weather data <https://www.rgs.org/CMSPages/GetFile.aspx?nodeguid=59f46632-ae51-4ea7-ab94-a0c537eb3c71&lang=en-GB>

Passage of a depression

http://www.metlink.org/wp-content/uploads/2013/11/depression_caseswow.pdf

Data source: <http://wow.metoffice.gov.uk>

Weather and Health/ Behaviour

- Classroom behaviour (http://www.metlink.org/wp-content/uploads/2014/08/behaviour_weather_wow.pdf)
- Use of inhalers in schools
- Number of people off school with illness
- <http://www.metlink.org/wp-content/uploads/2013/06/Effect-of-Climate-Variability-on-School-Attendance.pdf>
- [https://journals.lww.com/epidem/Fulltext/2017/03000/Traffic related Air Pollution and Attention in.5.aspx](https://journals.lww.com/epidem/Fulltext/2017/03000/Traffic_related_Air_Pollution_and_Attention_in.5.aspx)

Data source: <http://wow.metoffice.gov.uk>

Urban Climates

Using Wow data to look at urban heat islands <http://www.metlink.org/observations-and-data/wow/>

Urban winds: fieldwork guidance can be found on <http://www.metlink.org/observations-and-data/instruments/>

Urban temperature <http://www.metlink.org/other-weather/urban-heat-islands/urban-heat-island-background/>

Data source: <http://wow.metoffice.gov.uk>

Community resilience to extreme weather

- Extreme weather memories. <http://talkingjobs.net/modules/wmb/?ref=nm>
- Tempest data base <https://www.nottingham.ac.uk/geography/extreme-weather/search/>
- Data source: <http://www.metoffice.gov.uk/public/weather/climate/gcqrqyr80>

Local microclimate

<http://www.metlink.org/wp-content/uploads/2013/06/USBmicroclimate-1.pdf>

<http://www.geographyteachingtoday.org.uk/fieldwork/info/local-learning/fieldwork-in-the-school-grounds/5-quick-and-easy-ideas/>

<https://www.rgs.org/schools/teaching-resources/quick-and-easy-ideas/>

Data source: <http://wow.metoffice.gov.uk>

Factors affecting rainfall:

<https://www.manchester.ac.uk/discover/news/tuesday-wettest-day-of-week-suggests-new-analysis/>

<https://rmets.onlinelibrary.wiley.com/doi/10.1002/joc.2321>

Orographic rainfall http://www.metlink.org/wp-content/uploads/2013/11/orographic_foehn.pdf

Red Sky at Night

http://www.metlink.org/wp-content/uploads/2013/11/teenagers/red_sky.pdf with an introductory concept cartoon from the ASE <http://www.nationalstemcentre.org.uk/elibrary/resource/490/concept-cartoons-weather>

<http://www.metlink.org/other-weather/miscellaneous-weather/weather-folklore/>

Snow

Data Sources: <http://www.metlink.org/other-weather/miscellaneous-weather/will-snow/>

Sky Colour

<http://thechromologist.com/make-cyanometer-tool-blue-sky-thinking/> with <https://uk-air.defra.gov.uk/interactive-map> pollution forecast and pollen forecast <http://www.metoffice.gov.uk/health/public/pollen-forecast>

Weather and Flooding

Data source: National River Flow Archive <http://nrfa.ceh.ac.uk/> and <https://environment.data.gov.uk/hydrology/index.html#/landing>

Sea level

<http://www.coolgeography.co.uk/GCSE/AQA/Coastal%20Zone/Sea%20level%20rise/Sea%20level%20rise.htm>

Land and Sea breezes, sea breeze front

Data source: <http://wow.metoffice.gov.uk>

Air Masses

<https://earth.nullschool.net/>

http://www1.wetter3.de/Archiv/archiv_ukmet.html

various links on <http://www.metlink.org/secondary/key-stage-4/>

Data source: <http://wow.metoffice.gov.uk>

General resources

<https://www.rgs.org/schools/teaching-resources/key-stage-five/extreme-weather/>

<http://www.metlink.org/observations-and-data/>

<http://www.metlink.org/observations-and-data/instruments/>

<https://www.rgs.org/schools/teaching-resources/a-student-guide-to-the-a-level-independent-investi/>

<https://www.geography-fieldwork.org/a-level/before-starting/>

<https://www.rgs.org/in-the-field/fieldwork-in-schools/fieldwork-resources/>