

BC's Recording Schemes



BC's Recording Schemes play a key role in our new strategy



- Recover butterflies and moths
- Connect people to nature
- Unite for wildlife
- Tackle threats to species
- Manage land sustainably







Why record butterflies and moths?

- You cannot conserve them unless you know where they're found!
- Enables us to see how species are faring in terms of distribution
- Identify conservation priorities
- Protect habitats through the planning system
- Scientific Research projects (e.g. analysing and understanding declines, effects of climate change and other drivers of biodiversity change)



Butterfly Conservation's over arching National Recording Schemes



National Moth Recording Scheme

Established in 2007

UK, Isle of Man & Channel Islands

> 32 million macro-moth records

> 5 million micro-moth records

1741 - 2021 (280 years)



Butterflies for the New Millennium

Established in 1995

UK, Isle of Man & Channel Islands

> 17 million butterfly records

1690 - 2021 (331 years)







What is a recording scheme?

Depository for biological records

What is a biological record?

- Species
- •Recorder and determiner
- Date (for moths it's the night the trap was run)
- •Grid reference and location













Local data capture: the County Recorder Network

Volunteer local experts

Encourage recording

Promote moths and butterflies

Provide feedback to recorders

Collate local datasets

Verify records

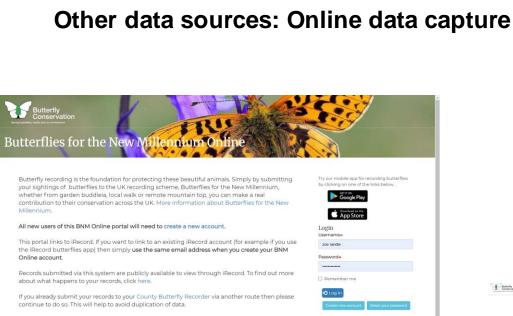
Submission of records to NMRS and BNM (and other places in some cases)

.....and often loads more...!











Moth recording is the foundation for protecting these beautiful animals. Simply by submitting your sightings of moths to the UK's National Moth Recording Scheme, whether from kitchen window, back garden moth-trap or remote mountain top, you can make a real contribution to their conservation across the UK. More information about the National Moth Recording Scheme

All new users of this NMRS Online portal will need to create a new account.

This portal links to iRecord. If you want to link to an existing iRecord account (for example if you use the iRecord app) then simply use the same email address when you create your NMRS Online account.

Records submitted via this system are publicly available to view through iRecord. To find out more about what happens to your records, click here.

If you already submit your records to your County Moth Recorder via another route then please continue to do so. This will help to avoid duplication of data.

Username Dassword D Log



iRecord Butterflies Q





Butterfy Conservation



Take part from your garden, allotment or community space...



Join in





ou can add more than one garde

Submit sightings





Sign in



Citizen science surveys that contribute to the NMRS and BNM



Big Butterfly Count – mass participation





| Home | About Moth | n Night | Themes | Taking part | Public I | Events | News | Prizes |
|---------|-------------|----------|------------|--------------|----------|--------|-------|------------|
| Submitt | ing records | Essentia | al reading | Moth Night F | Reports | Useful | links | Contact us |



Annual celebration of moths & moth recording





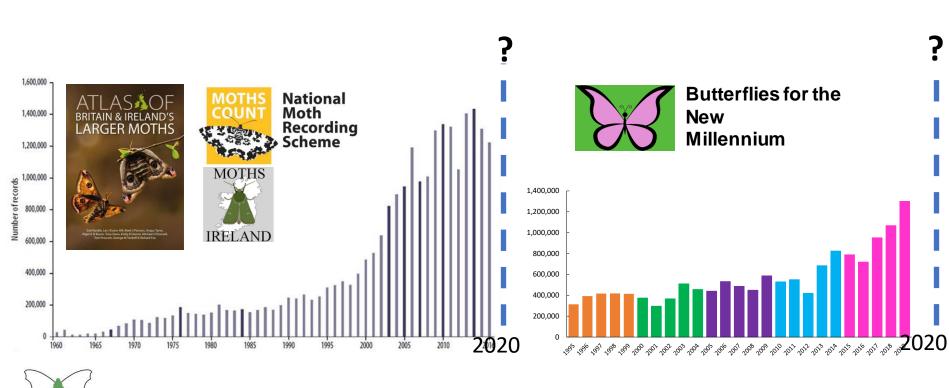


UK Centre for Ecology & Hydrology





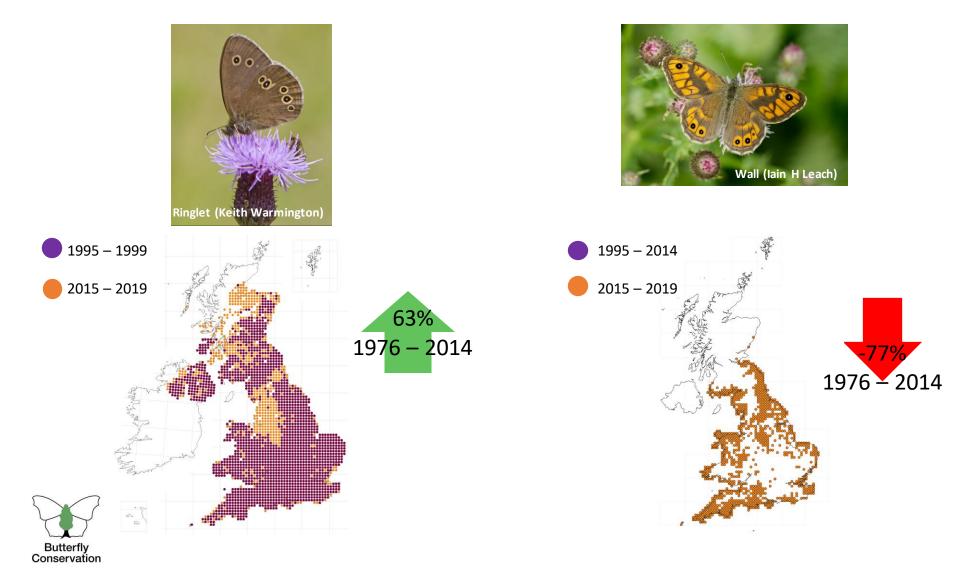
Growth in moth and butterfly recording



Butterfly Conservation

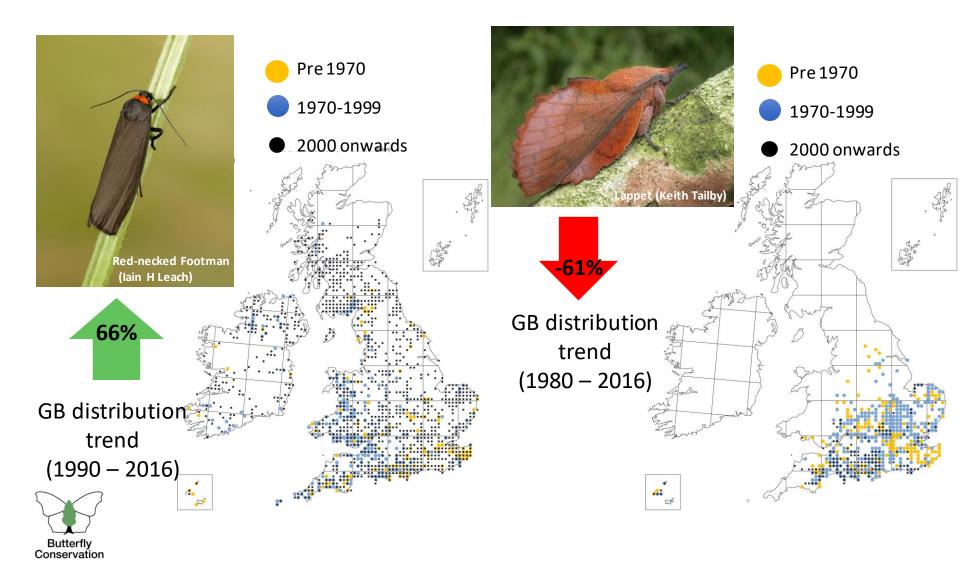


BNM data use: Distribution maps



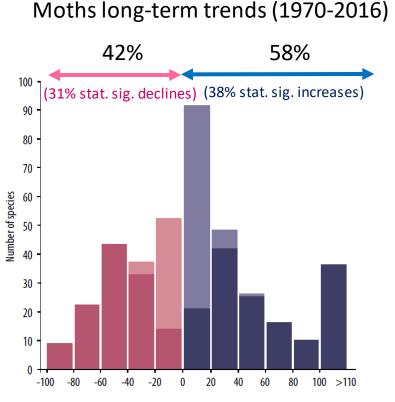


NMRS data use: Distribution maps



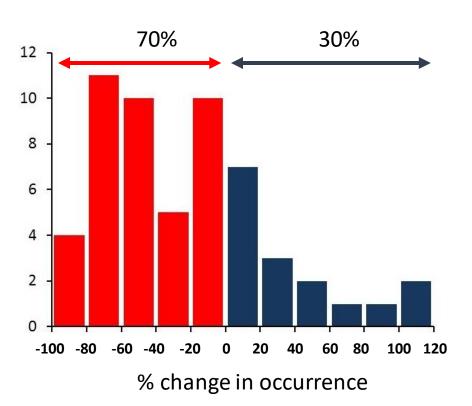


NMRS and BNM Data use: Long-term distribution trends



% change in occurrence

Butterflies long-term trends (1976-2014)







NMRS and BNM data use – Traits database

968 macro-moth and butterfly species

- life cycle ecology and phenology
- host plant specificity and characteristics
- breeding habitat
- morphological characteristics
- conservation status
- distribution (occupancy) trend
- abundance trend



Free to download from the UKCEH Environmental Information Data Centre (EIDC) website:

https://catalogue.ceh.ac.uk/documents/5b5a13b6-2304-47e3-9c9d-35237d1232c6

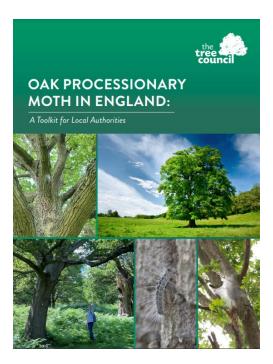
Cook, P.M.; Tordoff, G.M.; Davis, A.M.; Parsons, M.S.; Dennis, E.B.; Fox, R.; Botham, M.S.; Bourn, N.A.D. (2021).



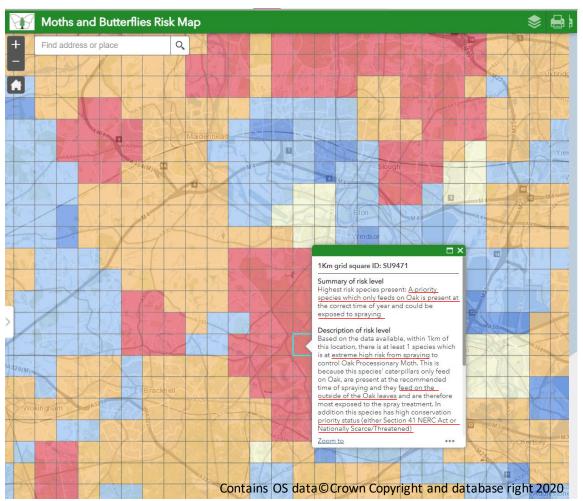


NMRS and BNM data use – OPM Toolkit

Provides a common framework for developing a local risk-based approach to managing OPM

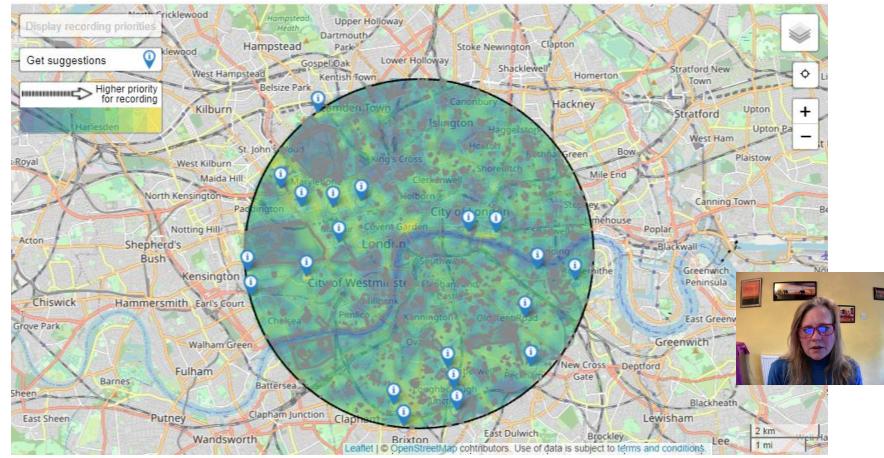






https://opmhub.fera.co.uk/lepidoptera-biodiversity-map

DECIDE – a tool to improve recording coverage to improve Species Distribution Models







UK Centre for Ecology & Hydrology

100,000 Wildspaces

Big Butterfly Count within GSD 1 or 2

Green Space Deprivation score of 1

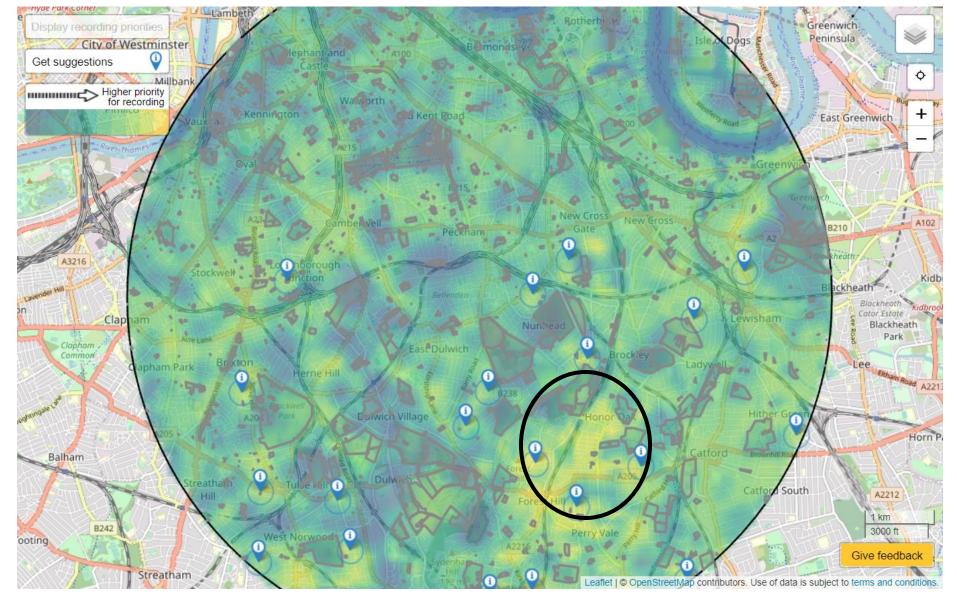
Green Space Deprivation score of 2

Big Butterfly Count outside GSD 1 or 2

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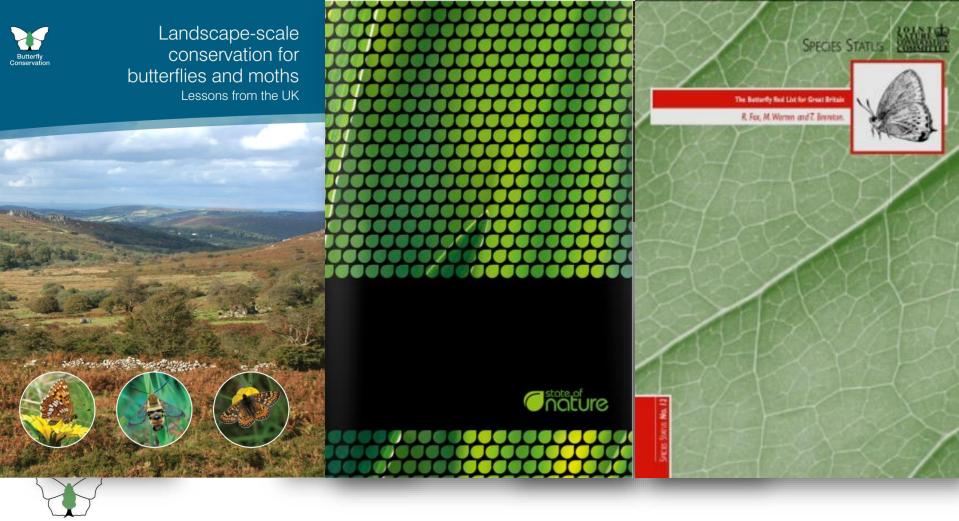


DECIDE





NMRS and BNM outputs (and inputs)



Butterfly Conservation



NMRS and BNM data users





Cyfoeth Naturiol Cymru Natural Resources Wales



Forestry and Land Scotland Coilltearachd agus Fearann Alba

NatureScot Scotland's Nature Agency Buidheann Nàdair na h-Alba









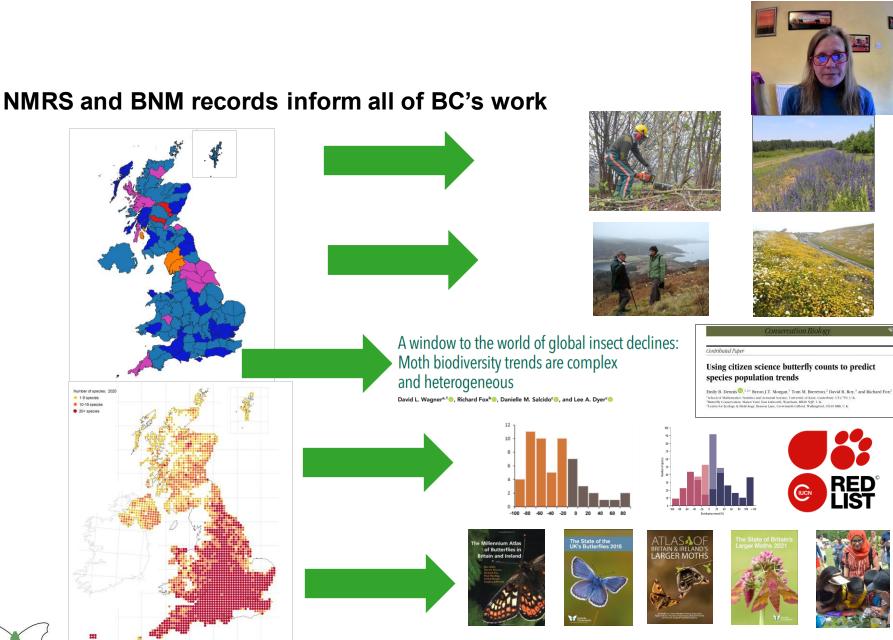




NMRS and BNM scientific papers











The roles of County Recorder and their Verification Assistants are integral to this process and enable BC's to produce these outputs...

Thank you so much!

