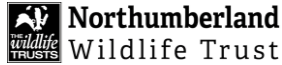


NBN Atlas update

Sophia Ratcliffe
NBN Trust

NBN Conference, 09 November 2022





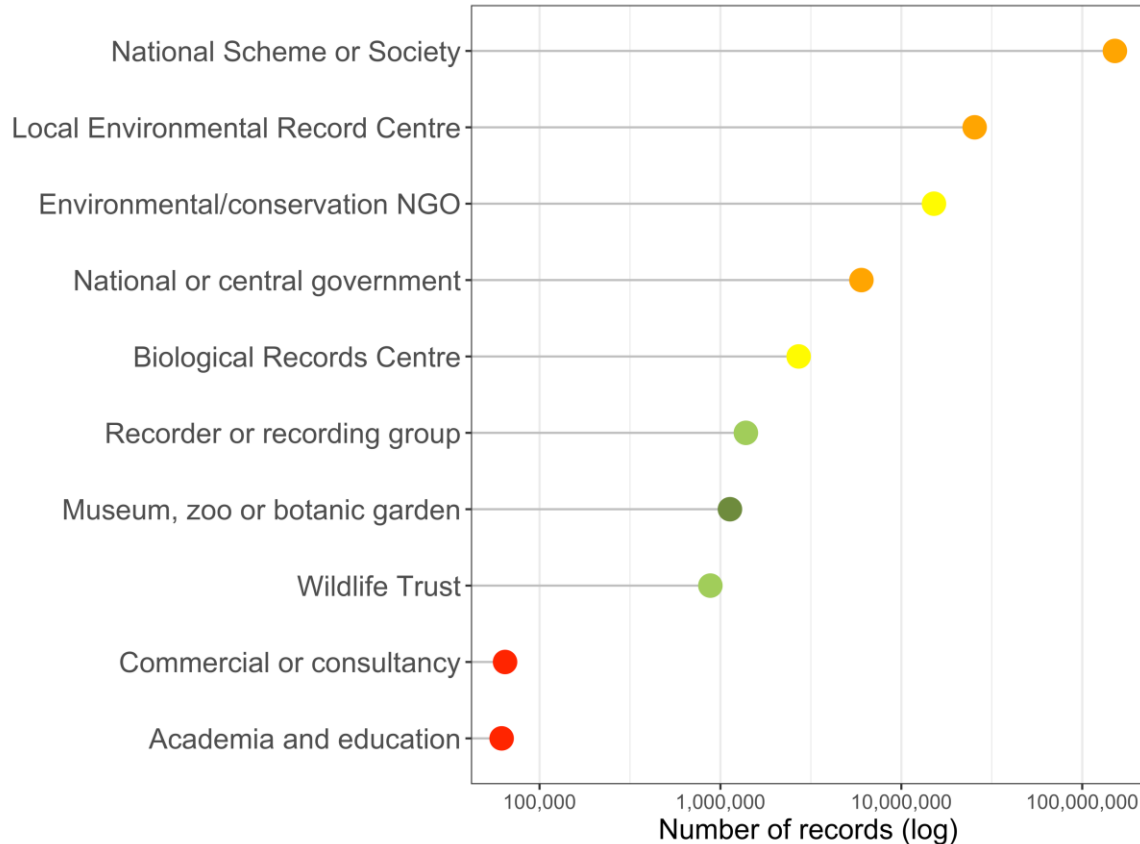
Sheffield & Rotherham



TWIC



Records by data provider type



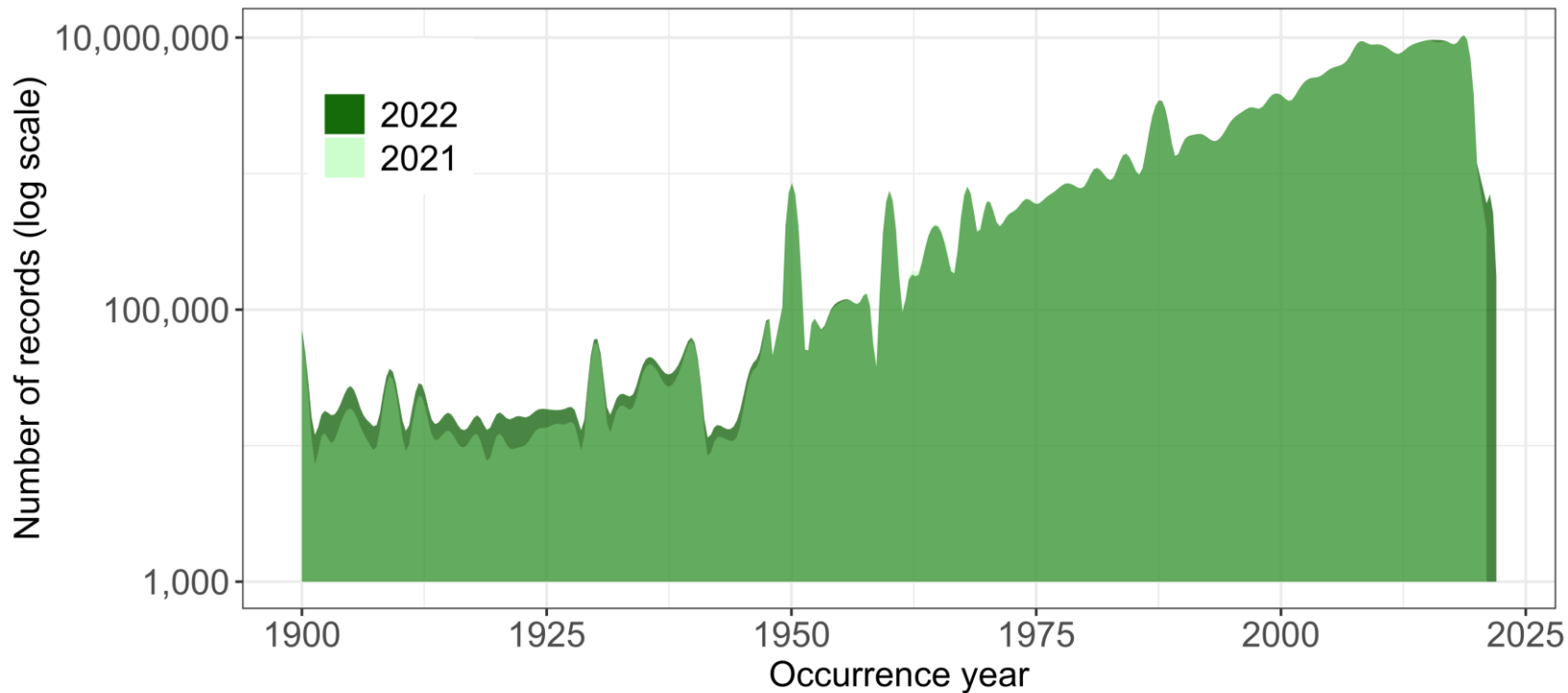
Annual increase

- < 1%
- 1 - 5%
- 6 - 10%
- 11 - 50%
- > 50%

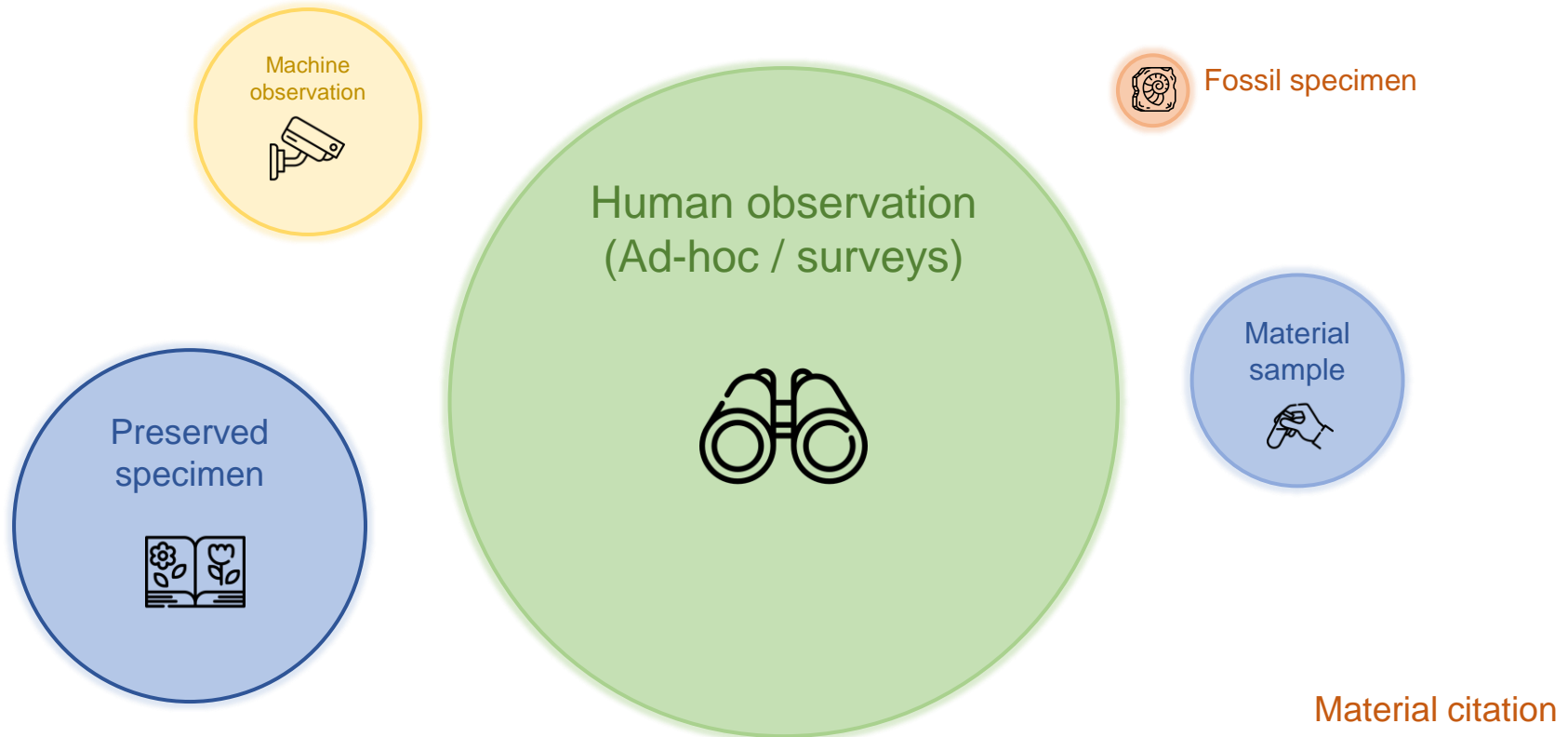
New data providers

- Natural History Museum, London
- Newcastle University
- iSpot
- Scottish Raptor Monitoring Scheme

Number of records per year

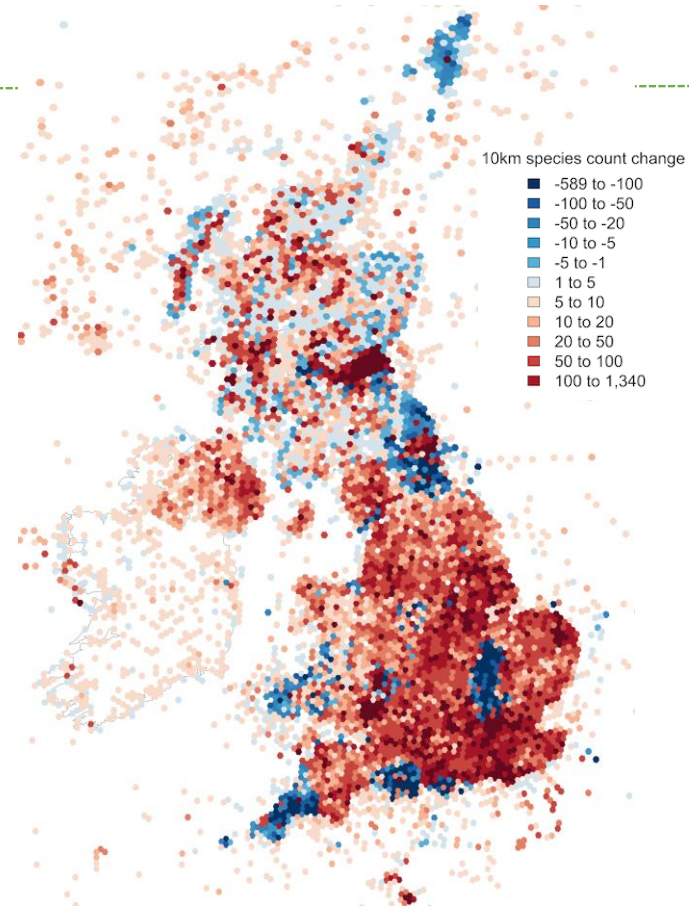
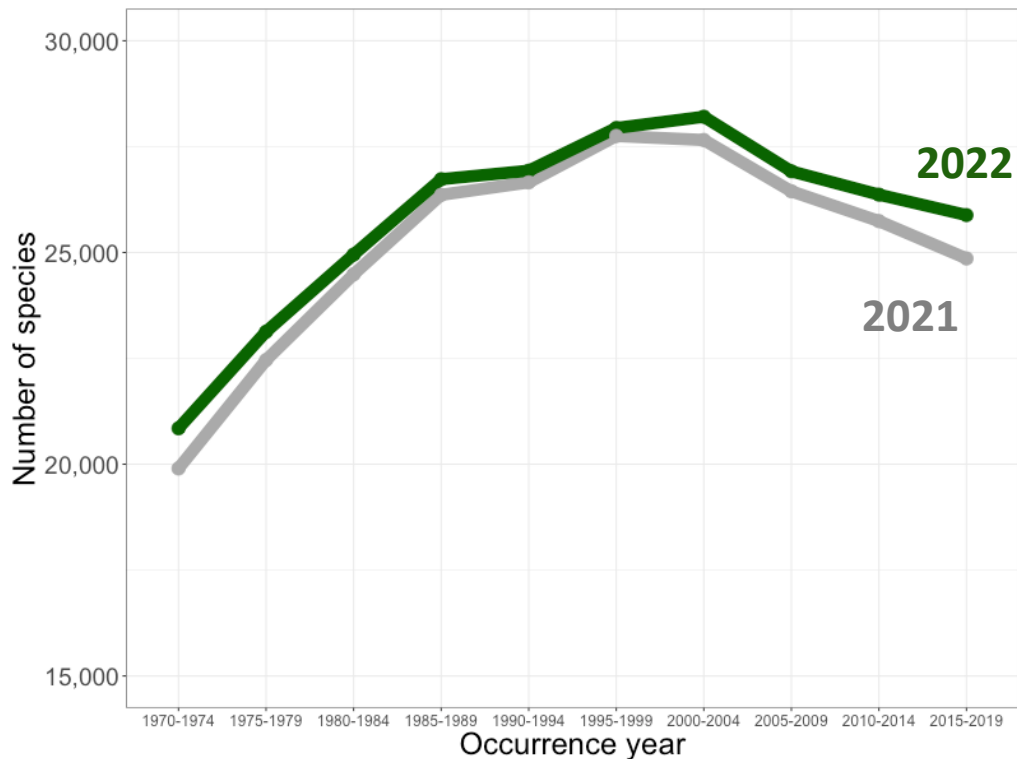


Type of records

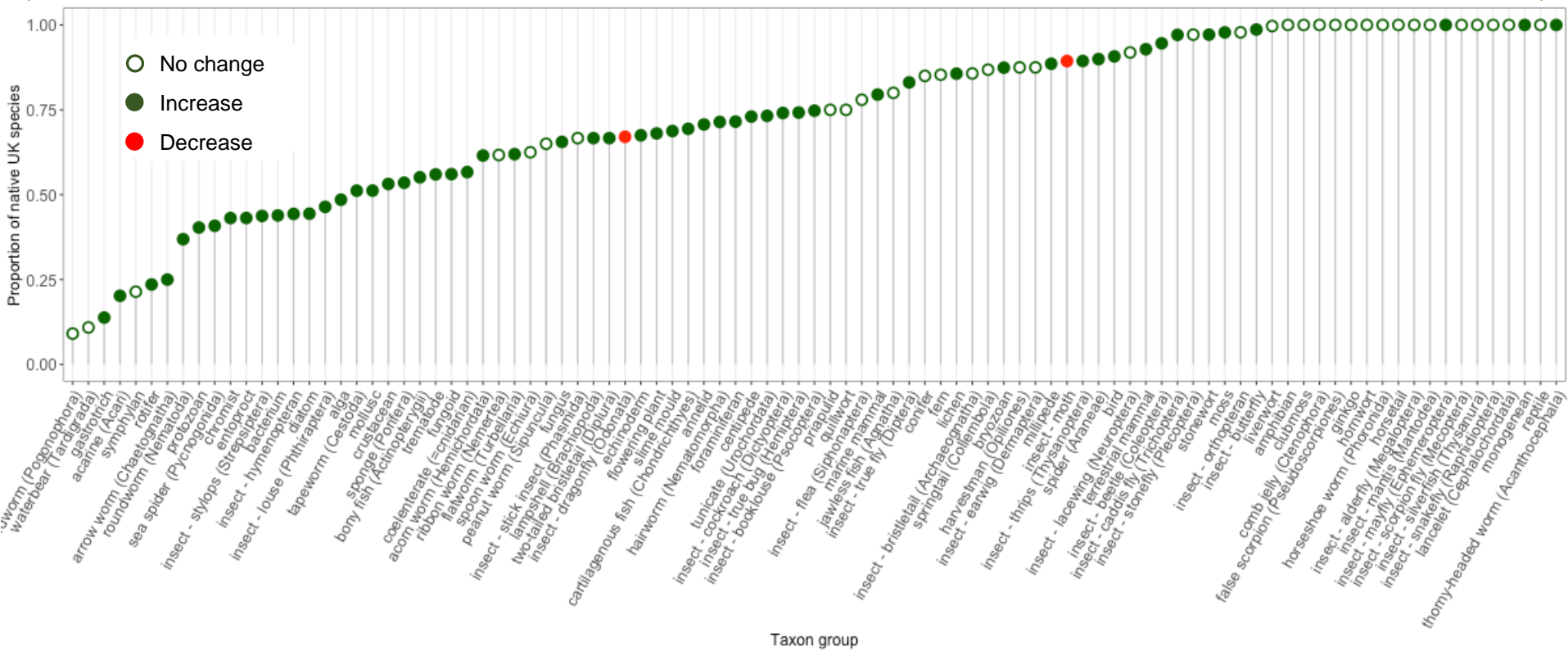


Material citation

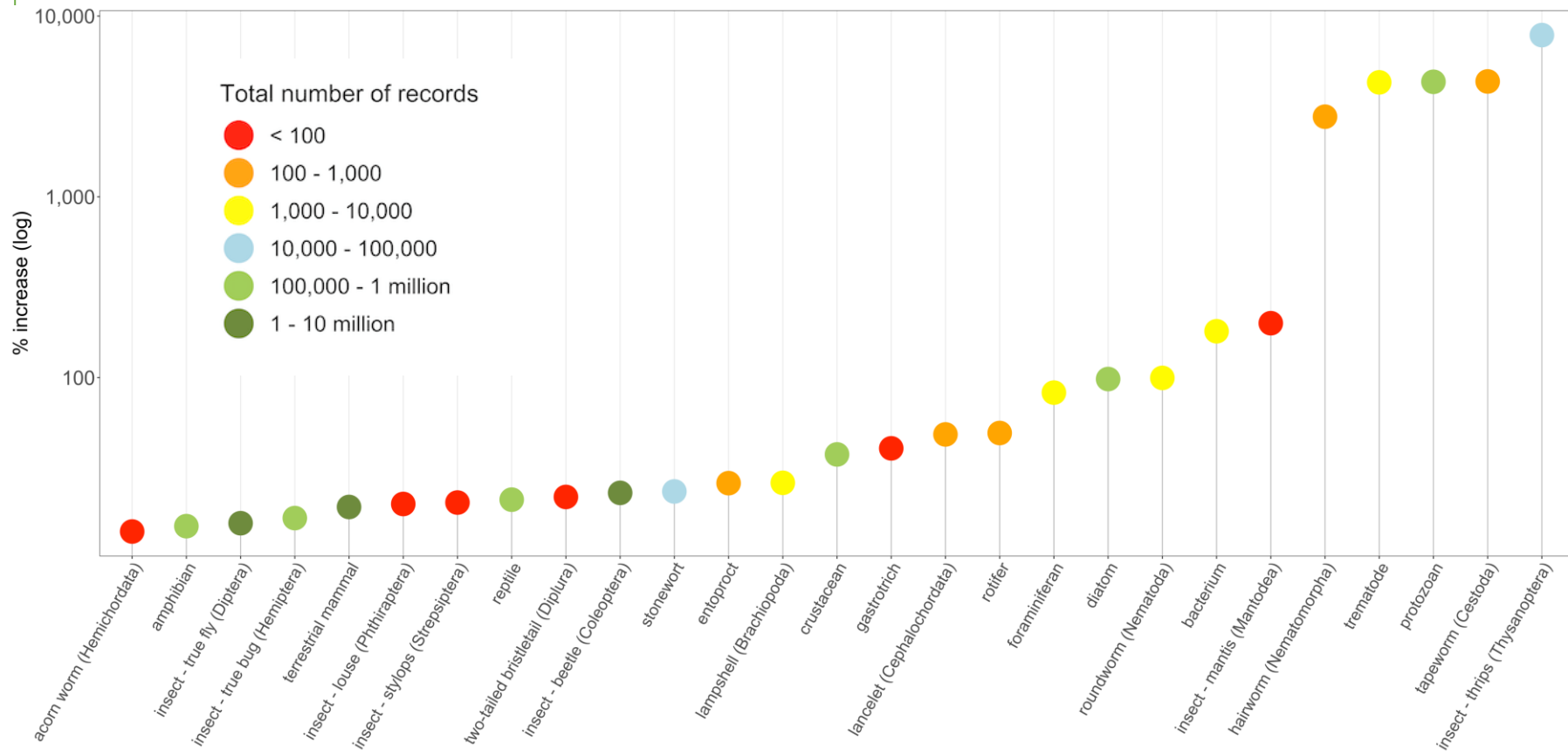
Species coverage



Proportion of native species with records by taxon group

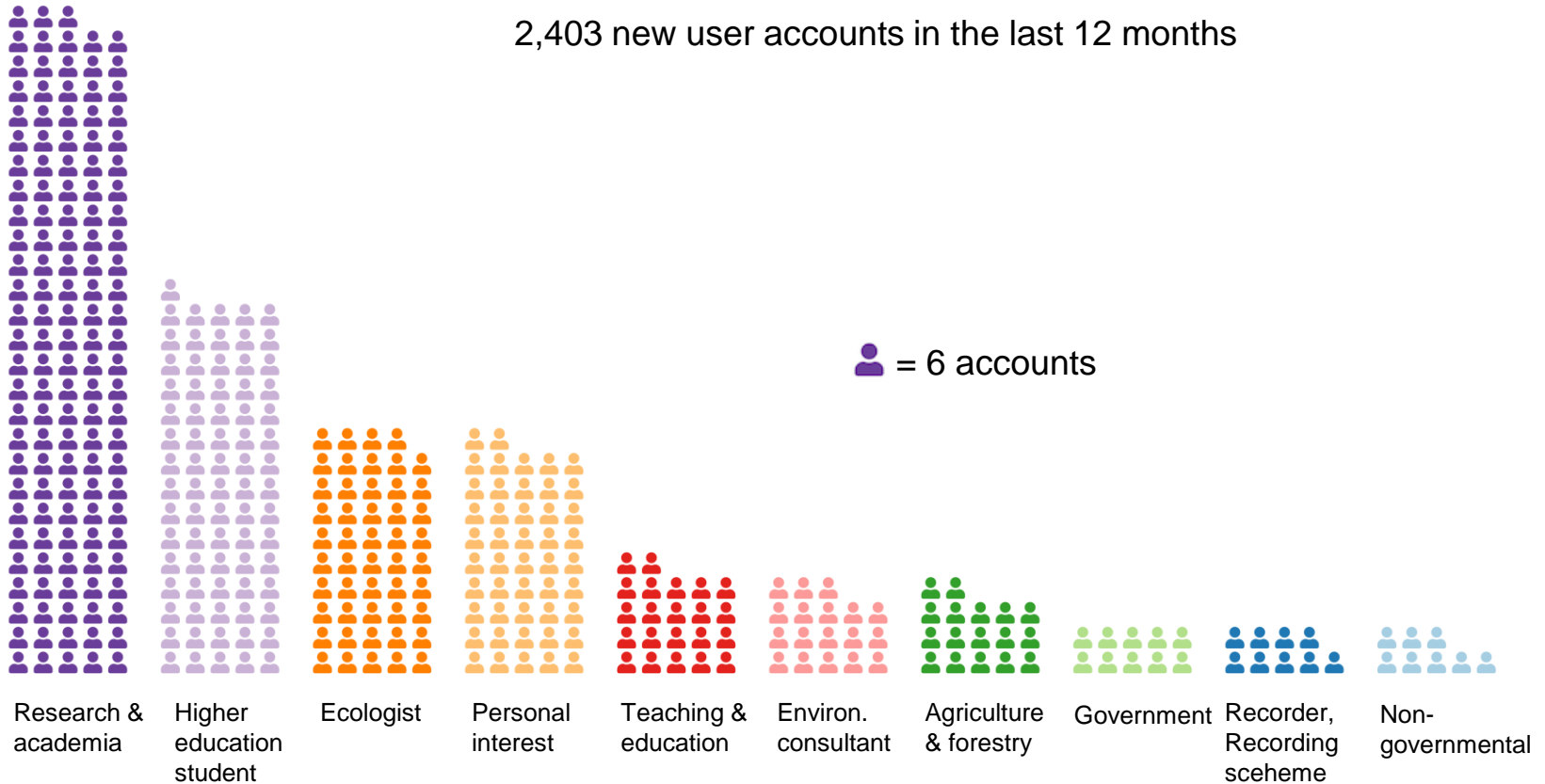


Increase in numbers of records by taxon group

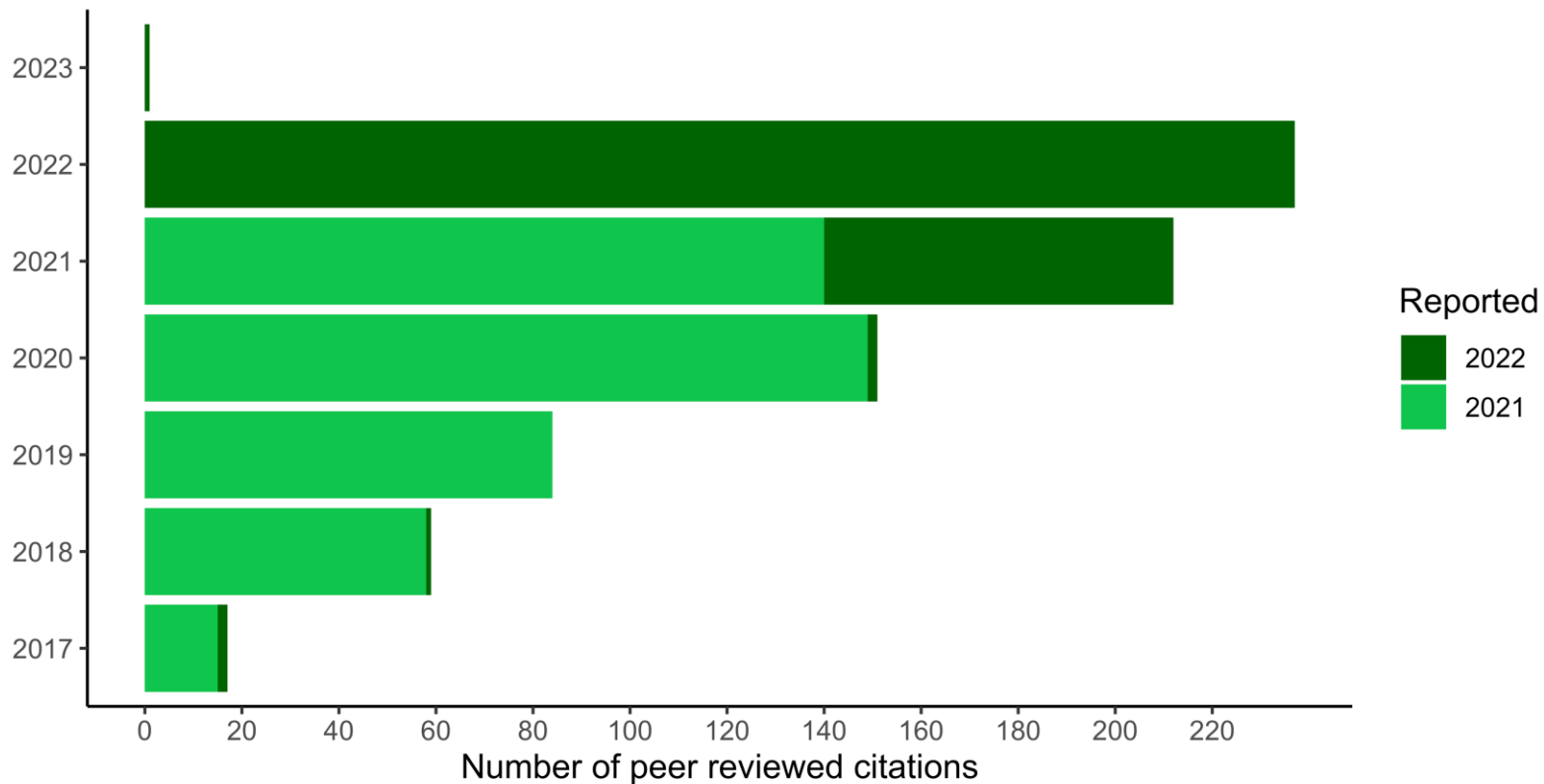


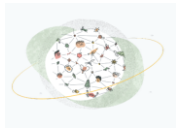
New user accounts

2,403 new user accounts in the last 12 months



GBIF citations





Sandall, E. L., Pinkert, S., & Jetz, W. (2022). Country-level checklists and occurrences for the world's Odonata (dragonflies and damselflies). *Journal of Biogeography*, 49, 1586–1598.

<https://doi.org/10.1111/jbi.14457>



Grasshoppers
& Related Insects
Recording Scheme

Chesters, D, Beckschäfer, P, Orr, MC, Adamowicz, SJ, Chun, K-P, Zhu, C-D. Climatic and vegetational drivers of insect beta diversity at the continental scale. *Ecol Evol.* 2019; 9: 13764– 13775.

<https://doi.org/10.1002/ece3.5795>

**Terrestrial Heteroptera
Recording Scheme**

for Britain & Ireland



Bonnamour, A., Gippet, J.M.W. & Bertelsmeier, C. (2021) Insect and plant invasions follow two waves of globalisation. *Ecology Letters*, 24, 2418– 2426.

<https://doi.org/10.1111/ele.13863>

Fit for the future

Stage 1: Upgrade preparation

Status: Finalising



Infrastructure review and optimisation of framework architecture and management processes



Extract the NBN Atlas customised changes from the Atlas of Living Australia (ALA) platform into a separate layer



Reformat all datasets still in the NBN exchange format as Darwin Core

Impact on users

- Greater stability
- No changes to functionality
- Critical bugs will continue to be fixed

Stage 2: ALA Platform upgrade

Status: Implementing



Upgrade components to latest version of the ALA platform



Overlay ALA platform with the new NBN Atlas customisation layer

Impact on users

- Improved performance
- Ability to customise NBN Atlas further without restrictions

Stage 3: Data processing upgrade

Status: Planned start in January 2023



Replace occurrence record storage system and load processes with the latest ALA version

Impact on data providers

- Faster time to publishing records
- Consistent data processing with GBIF

Development updates

- Focus on FFTF project
- Consolidating the infrastructure to AWS
- Automating manual processes

- New advanced records search
- Addition of missing fields to downloads
- Traffic light notification when services are unavailable

What's next

- Digital Object Identifiers (DOIs) on downloads (e.g. 10.1000/xyz123)
 - Access controls (phase one)
 - Mobilise eDNA-derived occurrences
 - Duplicate detection
 - Plugin for beautiful maps on third party websites
- Greater collaboration with ecological consultancies and academia



Common Darter (CC BY)
<https://uk.inaturalist.org/observations/134155154>

Sophia Ratcliffe
NBN Atlas Data Manager
s.ratcliffe@nbn.org.uk
0000-0001-9284-7900

NBN Trust:
<https://nbn.org.uk>
<https://ror.org/00mcxye41>
<https://nbnatlas.org>
<https://uk.iNaturalist.org>



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