

Terrestrial invertebrate monitoring interests and barriers

The main purpose of this survey is to inform a workshop and report by JNCC on the use of DNA in monitoring terrestrial invertebrates. JNCC is the public body that advises the UK Government and devolved administrations on UK-wide and international nature conservation.

If you provide an e-mail address, this will be used to contact you about the workshop and to send you a draft and a final version of the report. Your name and organisation name will be used to help with workshop planning. Personal details or comments made by any individual or organisation will not be shared without written permission. Summary information (e.g. number of people or organisations with particular interests) may be discussed during the workshop and may form part of a subsequent report. The legal basis for these data uses is legitimate interest.

E-mail addresses will be retained for the duration of the project, which will be <12 months.

Please also see the JNCC privacy notice for more information about data protection and your rights (<https://jncc.gov.uk/about-jncc/corporate-information/privacy-statement/> (<https://jncc.gov.uk/about-jncc/corporate-information/privacy-statement/>))

* Required

1. Name (Optional)

2. Organisation (Optional)

3. Type of organisation *

Academic

Government

NGO

Commercial

Other

4. How would you rate your knowledge and experience of using DNA-based methods?

For this and all subsequent questions:

- 'DNA' is used to encompass eDNA and DNA extracted directly from organisms

- Please only consider the use of DNA for detecting/identifying/surveying species or communities (e.g. exclude work on population genetics). *

Basic understanding 1 2 3 4 5 6 7 Very familiar (use routinely, develop methods etc.)

5. What is the focus of the invertebrate monitoring/research that you carry out? Please include work that already uses DNA and work where there is a potential interest in using DNA. Please tick all that apply. *

Species assemblages

Single species (conservation concern)

Invertebrate pest detection

Pollinators

Soil invertebrates

Food webs and diet analysis

Other

6. Are any invertebrate taxa of particular interest to you? (e.g. Coleoptera, Hymenoptera, individual species etc.)

7. Are any terrestrial habitats of particular interest to you? (Please tick all that apply) *

- Forest
- Grassland/heath/bog
- Riparian
- Agriculture
- All terrestrial habitats

Other

8. What is the purpose of the monitoring or research that you carry out? Please include work that already uses DNA and work where you may be interested in using DNA. (Please tick all that apply) *

- Investigating the effects of interventions/management
- Investigating the effects of climate change
- Investigating the effects of other anthropogenic pressures (please use the 'Other' box below if you would like to specify)
- Protected site monitoring or designation
- Protected species monitoring
- Environmental impact assessments
- Invasive species detection/control
- Understand ecosystem functioning, resilience etc.
- Investigate food webs, interaction networks etc.
-

Other

9. The following reasons have previously been given as important general barriers to the uptake of DNA in monitoring. Please indicate how important you think each reason is for restricting uptake specifically in relation to terrestrial invertebrates. ('End user' refers to public bodies and other organisations potentially using the results from DNA-based methods operationally - i.e. for routine survey/monitoring rather than research). *

	1 (not important at all)	2	3	4	5 (very important)
Lack of standard protocols and guidance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
End user understanding of methods or confidence in results	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lack of awareness of end user monitoring needs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Completeness or quality of reference libraries	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data management and sharing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cost savings from using DNA not clear	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fast pace of technology change	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lack of funding to develop methods or other resources	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Regulations not flexible to include new technology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Inadequate communication between end users and researchers/contractors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Difficulty in quantifying abundance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

10. Please add any further comments on barriers in relation to using DNA for monitoring terrestrial invertebrates

11. Please add any further comments that you feel are important but aren't fully addressed by the above questions

12. The intention is to hold one or two online workshops to identify projects and activities that will help to tackle the main barriers identified in Q9-10. Workshops would be 2-3 hours and use Microsoft Teams. Would you be interested in participating? *

- Yes
- No
- Maybe

13. Please add your e-mail address below (this will be used to contact you about the workshop) *

14. Some suggested dates for online workshops are below. If you are interested in participating please could you indicate your availability on these dates. *

- 26th Jan (pm)
- 28th Jan (am)
- 29th Jan (am)
- 2nd Feb (am)
- 3rd Feb (pm)
- 4th Feb (am)
- 16th Feb (pm)
- 17th Feb (am)
- Interested but unavailable for these dates

This content is neither created nor endorsed by Microsoft. The data you submit will be sent to the form owner.