PAN-Environment metadata request form

We have been BLOWN away with the response to our data call. It has also been a pleasure to meet and speak to almost everyone about your data and analysis. Now we have a challenging logistical exercise, bringing all your details together for the publication stage. Our first target for our paper will be Nature, and you will see we request information (author details and references in Nature format).

To help us we ask you take the time to: (1) carefully read the instructions, and (2) email us at ecosystem.pan.environment@gmail.com if you have questions to clarify how to answer the below.

In this form, we will collect most of the information and meta-data needed for publication of your results. Because we have many responses coming in from very diverse organizations, we are trying to use easily-readable formats that will allow us to automatically parse and format your responses. While this may add some effort to entry of data in the form, it will greatly reduce the amount of follow-up we will need to do with each group. We will provide further specific details for you to provide your results as each study had idiosyncrasies.

*Required

Contact details

Details for who are the best contacts should we have follow-up questions.

---

1. Primary contact (email) for the data contribution *

_____

2. Analysis contact

   Email address for the person conducting the data analysis (if different from primary contact)

_____

Sampling
Methods

> This information will help us define and classify your results, and will form the
> basis of a table that will be a supplement to the main manuscript.

3. Please describe what response variable(s) are you measuring? For example,
   change in migration distance and travel time by bats during Covid lockdown,
   versus the same period pre-lockdown. This is key: where you have more than
   one response you are measuring, please make a clear distinction between
   each type of response and separate by a semicolon, and preface each
   response as follows: [Response 1] description of response 1 ; [Response 2]
   description of response 2; etc *

   _____

4. What are the units? [Response 1] units of response 1 ; [Response 2] units of
   response 2; etc *

   _____

   _____

   _____

   _____

5. Please describe succinctly the hierarchical sample sizes for your study, in a
   format that is intuitive for inclusion in a table. Depending on your study, this
   will include numbers of observations (of individuals, species, locations) and
   how the observations are structured in time and space. For example: "1-10
   observations of up to 10 species over 50 locations, 5000 total observations." *

   _____

6. How were your data collected, including covariates? Please provide a brief
    description of the methods used to collect the data you are contributing,
    including quality control measures, detectability measures, and
    reference/control states. Please use references to existing publications using
    name-date format: e.g. (Bradbury et al, 2010). We will ask for all the references
    you include here at the final step in this form. *

    _____

    _____

    _____

    _____

Analysis

> We may need to come back to you with questions, but we have tried our best to get
> as much detail here to ensure a smooth process.

7. Type of comparison

    Mark only one oval.

    ( ) Comparison of same time period between years (e.g. April 2018 and 2019, vs
    April 2020)

    ( ) Comparison of similar areas (e.g. area affected by lockdown versus unaffected,
    or rural versus urban)

    ( ) Linear trend during lockdown period (e.g. observations between Jan and May
    2020)

    ( ) Continuous time series

    ( ) Other: _____

8. Spatial scale

We have asked you to produce a % change in your response and t-statistic for a specific spatial scale; at what spatial scale are your data binned?

Check all that apply.

☐ Local Scale: data are specific city or geographic location and represent one or a few geo-locations which are restricted to the local scale

☐ Regional Scale: e.g., data are integrated across a region

☐ >Regional-Global Scale: e.g., data are integrated for different independent units and encomposs many estimates of effect size that are geo-located

Other: ☐ _____

9. Observational biases. Are there any observational effects that might be conflated with your observed response? For example backyard birders might provide a higher number of observations during lockdown periods. Another example is that many temporal trends might be altered by natural seasonal cycles. How have you accounted for (analytically) with these covariates?

_____

10. Data accessibility. Please provide a sentence describing where readers can get access to data. Answers should be: 1) a data repository DOI, 2) a on-line website portal link that accesses the data, 3) an email contact to gain access to the raw data.

_____

11. Please provide any further method or analysis details there that are relevant to your particular study.

_____

_____

_____

_____

_____

Results

Here we collect results from a statistical analysis. Please either use the upload tool below, or send your results in an email to ecosystem.pan.environment@gmail.com, with the subject line: "RESULTS ATTACHED" and your research group's name. The results were highly variable, so please do your best for this section. We are standing by if you have questions.

12. We want to be able to plot your results on a global map. If you provide you results as a summary table (screenshot, see next question) please at your lat and long details here: [lat] -30.07421 [long] 180.00675. If you have produced many models over large regions, please include lat and long in your results file. *

_____

_____

_____

_____

_____

13. Please upload a screenshot of your model summary table, using summary(model). Please make sure you capture the model formula, coefficients and degrees of freedom. Alternatively, if you have more than 5 model results, please upload model results combined in .csv file.

Files submitted:

14. Please describe summary table (screen shot) or results table (if many independent analyses were conducted), the model structure, and the units of the predictors and covariates (i.e., the fixed effects).

_____

_____

_____

_____

_____

15. Confidence score: how confident are you there was an effect due to covid-related lockdown in your system? *

Mark only one oval.

( ) 1: Zero confidence that there was a lockdown effect

( ) 2: Possible effect, but unlikely due to lockdown

( ) 3: Effect may be due to covid ockdown

( ) 4: Effect likely due to covid lockdown

( ) 5: Effect almost certainly due to covid lockdown

16. Interpretation: Please provide a brief interpretation of your results and include 1) what the underlying covid-related link was (if any), 2) why you were able to or unable to see that effect in your study, 3) whether the effect is likely to have persistent consequences.

_____

_____

_____

_____

_____

Publication information

This is the information we need to include to the journal so we can include your group as authors. Please be INCLUSIVE.

17. Please provide a list of author names in the following format, with a semicolon separating each author: [1] Firstname | Middle Initials | Lastname; [2] Amanda | E | Bates; etc. *

18. Please List affiliations for each author in the following format, with the numerical designation provided for each author along with their affiliation(s): [1] Affiliation 1 | Affiliation 2 ; [2] Affiliation 1; etc. https://www.nature.com/nature/for-authors/formatting-guide

19. Please list the role/contribution of each author: [a] principal investigator, [b] assisted with data collection, [c] assisted with converting field observations to a data product appropriate for analysis, [d] data analysis. Use the following format, with the numerical designation provided for each author along with their role(s): [1] a|b ; [2] c|d; etc

_____

_____

_____

_____

20. Please provide a list of granting agencies you should acknowledge in the following format: [grant number 1] Natural Sciences and Engineering Council of Canada (NSERC); [grant number 2] etc.

_____

21. Please provide a list of grant numbers for each of the grants above in the following format: [grant number 1] 09473847; [grant number 2] 74638364x.

_____

22. Please provide a further acknowledgements statement for your group. For example, this might include acknowledgement of volunteer contributions or traditional land rights holders. To acknowledge people, use an initial for the first name followed by the last name, and follow guidelines given by Nature: https://www.nature.com/nature/for-authors/formatting-guide

23. We asked for references in the above sections to support your methods and interpretation of your results (above you added author names and dates). Please provide the specific citations we should include in the supplementary materials. Please use the Nature style and separate articles with a | . For example: Mehrkam, L. R. & Wynne, G. D. L. Behavioral differences among breeds of domestic dogs (Canis lupus familiaris): current status of the science. Appl. Anim. Behav. Sci. 155(2014). | [next article] (https://www.nature.com/nature/for-authors/formatting-guide)