

Peer Review Information

Journal: Nature Ecology & Evolution

Manuscript Title: Using the IUCN Red List to map threats to terrestrial vertebrates at global scale

Corresponding author name(s): Michael B. J. Harfoot, Jonas Geldmann

Editorial Notes:

Redactions – transferred manuscripts (mention of previous referee reports from elsewhere) This manuscript has been previously reviewed at another journal. This document only contains reviewer comments, rebuttal and decision letters for versions considered at Nature Ecology & Evolution. Mentions of prior referee reports have been redacted

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Reviewer Comments & Decisions:

Decision Letter, initial version:
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28th March 2021

*Please ensure you delete the link to your author homepage in this e-mail if you wish to forward it to your co-authors.

Dear Dr Geldmann,

Thank you for transferring your manuscript entitled "Towards a global map of threats to species" to Nature Ecology & Evolution. As I communicated by email to your co-author Mike Harfoot last week, we are pleased to offer publication in NEE, subject to some further requested revisions **[REDACTED]**. We

do not expect to engage those reviewers again, nor to recruit additional reviewers, but will need to see these responses and your revised manuscript before we can reach a final decision regarding publication.

We are committed to providing a fair and constructive peer-review and editorial process. Do not hesitate to contact us if you have queries about the below requests. **[REDACTED]**.

Requested revisions:

1. The paper will need to be reformatted to NEE style; we don't require reformatting to consider transferred papers, but we do like authors to undertake some reformatting prior to publication. This is mostly because our papers can be somewhat longer than allowed for **[REDACTED]** papers, and we usually find that this additional length is helpful to add discussion around points raised during review.

Our Articles can be up to around 3500 words, or a little longer if necessary. This is the length for the main text (not including abstract, references or methods). Please structure the main text as an Introduction section followed by a Results & Discussion section (retaining the subheadings is fine).

The abstract can be 150-200 words. If you feel it would help to slightly lengthen your abstract, please do so within this limit.

We aim for Methods sections to be up to around 3000 words, but they are not word limited and in general we prefer methods to be fully in the main text rather than split between main and supplementary methods, if this is achievable within the 3000 word ballpark. In this case, I suspect all of the Methods could go in the main paper or perhaps only the KBA analysis should be retained in the Supplementary Information.

We also allow up to 10 Extended Data figures that are viewed in-line in the main text of the paper online. Please consider which of your current SI figures should be converted to Extended Data and which retained in the supplement.

2. We hope that our longer format will allow some additional space for upfront addressing of the two main remaining concerns of the reviewers: the use of expert-derived data, and the current limitations of the maps presented.

To address the first point, we would like to see more of your response to the concerns around potential bias from expert-derived data placed in the main text rather than in the Supplementary Information. For example, from line 196, I think it would be helpful to expand somewhat on why you are confident in the use of Red List expert-derived information as being appropriate for the maps you produce. There was a lot of information in the 'response to reviewers' letter that helped me to understand both the reviewer concerns and your confidence. I'm not suggesting that all of this needs to go into the main text, but I think some additional discussion would be genuinely helpful to readers.

To address the second point, I would like to see some acknowledgement that the presented maps are not suitable for local conservation decision making earlier in the manuscript – perhaps at the start of the section 'Priorities for threat mitigation', or elsewhere if you feel there is another spot that is more appropriate. I also felt similarly to Reviewer #4 that some of the wording in your section on "Improving Future Threat Mapping" gave the impression "of an added ambition (a predictive accuracy

at the local scale)". Please could you further clarify this section to address whether this approach would ever be applicable for informing local-level conservation planning – I think it is fine to state that this would never be the goal of this approach, but that it is complementary to local-level approaches. But I do think it is ambiguous at the moment.

3. I am also still somewhat concerned by the use of the phrase 'high predictive accuracy' at line 305 and, to a lesser extent, at line 73. Would 'concordance' be an appropriate word to use instead of 'predictive accuracy'? If so, I feel that might help to avoid potential misinterpretation of threat-prediction capability.

4. Please could you consider a more direct, informative title. Perhaps: "Global terrestrial threat maps derived from expert-informed Red List data" – or something in that vein.

When you do resubmit, it would be very helpful if you could please provide the document as a word doc as well as a pdf, so that I can look at lengths.

When revising your manuscript:

* Include a response document detailing, point-by-point, how you addressed the above requests. If no action was taken to address a point, you must provide a compelling argument.

* If you have not done so already please begin to revise your manuscript so that it conforms to our Article format instructions at <http://www.nature.com/natecolevol/info/final-submission>. Refer also to any guidelines provided in this letter.

* Include a revised version of any required reporting checklist.

Please use the link below to submit your revised manuscript and related files:

[REDACTED]

Note: This URL links to your confidential home page and associated information about manuscripts you may have submitted, or that you are reviewing for us. If you wish to forward this email to co-authors, please delete the link to your homepage.

We hope to receive your revised manuscript within four to eight weeks. If you cannot send it within this time, please let us know. We will be happy to consider your revision so long as nothing similar has been accepted for publication at Nature Ecology & Evolution or published elsewhere.

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We look forward to seeing the revised manuscript and thank you for the opportunity to consider your work.

[REDACTED]

Decision Letter, first revision:

16th May 2021

Dear Jonas,

Thank you for submitting your revised manuscript "Using the IUCN Red List to map threats to terrestrial vertebrates at global scale" (NATECOLEVOL-210313262A). We appreciate the revisions you made - thank you for making them so clear in the letter and identifying them in the text. We are now happy in principle to publish it in Nature Ecology & Evolution, pending some minor revisions to comply with our editorial and formatting guidelines.

If the current version of your manuscript is in a PDF format only, please email us a copy of the file in an editable format (Microsoft Word or LaTeX)-- we can not proceed with PDFs at this stage.

The editorial assistant and I will now perform detailed checks on your paper and will send you a checklist detailing our editorial and formatting requirements in about a week. Please do not upload the final materials and make any revisions until you receive this additional information from us.

[REDACTED]

Our ref: NATECOLEVOL-210313262A

21st May 2021

Dear Dr. Geldmann,

Thank you for your patience as we've prepared the guidelines for final submission of your Nature Ecology & Evolution manuscript, "Using the IUCN Red List to map threats to terrestrial vertebrates at global scale" (NATECOLEVOL-210313262A). Please carefully follow the step-by-step instructions provided in the attached file, and add a response in each row of the table to indicate the changes that you have made. Please also check and comment on any additional marked-up edits we have proposed within the text. Ensuring that each point is addressed will help to ensure that your revised manuscript can be swiftly handed over to our production team.

**We would like to start working on your revised paper, with all of the requested files and forms, as

soon as possible (preferably within two weeks). Please get in contact with us immediately if you anticipate it taking more than two weeks to submit these revised files.**

When you upload your final materials, please include a point-by-point response to any remaining reviewer comments.

If you have not done so already, please alert us to any related manuscripts from your group that are under consideration or in press at other journals, or are being written up for submission to other journals (see: <https://www.nature.com/nature-research/editorial-policies/plagiarism#policy-on-duplicate-publication> for details).

In recognition of the time and expertise our reviewers provide to Nature Ecology & Evolution's editorial process, we would like to formally acknowledge their contribution to the external peer review of your manuscript entitled "Using the IUCN Red List to map threats to terrestrial vertebrates at global scale". For those reviewers who give their assent, we will be publishing their names alongside the published article.

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Please use the following link for uploading these materials:

[REDACTED]

If you have any further questions, please feel free to contact me.

[REDACTED]

Final Decision Letter:

15th July 2021

Dear Jonas,

We are pleased to inform you that your Article entitled "Using the IUCN Red List to map threats to

terrestrial vertebrates at global scale", has now been formally accepted for publication in Nature Ecology & Evolution.

Before your manuscript is typeset, our subeditor will edit the text to ensure it conforms to house style. Once your manuscript is typeset you will receive a link to your electronic proof via email, with a request to make any corrections within 48 hours. If you have queries at any point during the production process then please contact the production team at rjsproduction@springernature.com. Once your paper has been scheduled for online publication, the Nature press office will be in touch to confirm the details.

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Thank you again for choosing Nature Ecology & Evolution to publish your work, and for your patience throughout the process. It's been a pleasure working with you and Mike on it and I look forward to seeing it published soon.

[REDACTED]

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