

25 February 2020

Dear Dr. Alyssa Findlay:

We are here submitting a revised version of our manuscript “Disconnects between ecological theory and data in phenological mismatch research”for consideration as a Review Article in *Nature Climate Change*.

We note that data have been deposited (doi:10.5061/dryad.7pvmcvdpz) and we have carefully reviewed all analyses, tables, figures for clarity and any errors. In this process we noticed one discrepancy: we double counted one study in our summary of the literature and have updated the manuscript based on this. Our findings and conclusions remain unchanged.

Here is our revised editor’s summary: *Phenological shifts due to climate change can desynchronize the timings of life history events between species, but predicting the consequences is challenging. Changes to current methodologies would allow testing the widely-used Cushing hypothesis and improve predictions of climate change impacts.*

We hope you will find it suitable for publication. We look forward to hearing your assessment.

Sincerely,



Heather Kharouba (First author)