

Poitiers, December 16th, 2022

Dear Editor,

We would want to thank the recommender for their comments on our manuscript and for offering us the opportunity to improve this manuscript entitled "Deleterious effects of thermal and water stresses on life history and physiology: a case study on woodlouse".

Please find in the attached file the main text of the revised MS (with all the changes compared to the last revision in blue) and below our point-by-point responses (in bold) to the recommender' comments.

We hope you will find this revised paper suitable for publication in *PCI Ecology* and look forward to hearing from you.

Sincerely,

For the authors

Sophie Beltran-Bech

Our Point-by-point responses (in bold) :

The authors have provided a satisfactory response to reviewer comments from round 1. The following minor issues should be addressed before a decision is made:

1) Line 50: 'as increasingly reported' doesn't read well. Rephrase or remove.

We removed.

2) Line 50: "Thus, in Lepidoptera, too high temperatures prevent hatching" - Check punctuation and readability.

We replaced by : 'In Lepidoptera, for example, too high temperatures prevent hatching'.

3) Consider using the terms you have used in the title, thermal stress (for increased temperature) and water stress (for decreased moisture) throughout the manuscript after defining these terms early on. This will improve the readability of the manuscript.

We modified the manuscript by further integrating the terms "water stress" and "thermal stress", in particular in the Results and Discussion sections.

4) Consider changing For the experiment 1 (Line 81) to In experiment 1...Same for Line 85.

We replaced this.

5) Line 87 isn't much of a prediction ("We predicted that a rise in temperature and a loss in moisture should be stressful and should induce changes in life history and physiological traits.")

We replaced by 'hypothesized'.

6) Line 135: check for grammar: effect of a loss of moisture...

We replaced by 'effect of moisture loss'.

7) Line 137: check grammar: also aged of 7 months old

We rephrased.

8) Lines 158-165 should be moved to Results.

We moved this part at the beginning of the Result Part.

We hope that our responses and the substantial changes we performed to get this revised version will satisfy the recommender.

Sincerely Yours,

For the authors

Sophie Beltran-Bech