

Review Form 1.7

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_113505
Title of the Manuscript:	Elytral and Pronotal Polymorphism in the Ladybird beetles (Coleoptera: Coccinellidae).
Type of the Article	Research article

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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p>Compulsory REVISION comments</p> <ol style="list-style-type: none"> 1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript) 2. Is the title of the article suitable? (If not please suggest an alternative title) 3. Is the abstract of the article comprehensive? 4. Are subsections and structure of the manuscript appropriate? 5. Do you think the manuscript is scientifically correct? 6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<ol style="list-style-type: none"> 1. This manuscript has the potential to be valuable to the scientific community, particularly entomologists studying ladybird beetles and polymorphism. It documents and describes the variations observed in three ladybird species in a specific region, contributing to our understanding of their geographical and individual diversity. However, strengthening the analysis and addressing methodological limitations would enhance its significance. 2. The current title is good but slightly, if possible, can modify. A more concise option could be "Elytral and Pronotal Polymorphism in the Ladybird beetles (Coleoptera: Coccinellidae) of Hyderabad region" 3. The abstract provides a general overview of the study but could be more specific. Mentioning the number of morphs observed, key findings on morph characteristics and frequencies, and potential ecological implications would improve its comprehensiveness. 4. The overall structure with sections for each species and separate sections for results, discussion, and conclusion is appropriate. However, some subsections within each species section could be merged for better flow (e.g., combining morph descriptions). 5. While the core concept of investigating polymorphism is sound, the manuscript would benefit from a more critical evaluation of potential methodological limitations and a stronger connection between observations and existing knowledge. Addressing these aspects would enhance the scientific rigor. 6. The references appear relevant and cover a range of publication dates. Including more recent studies on polymorphism in ladybird beetles and relevant ecological aspects could further strengthen the reference base. <ul style="list-style-type: none"> • The manuscript currently focuses on qualitative descriptions of morphs. Consider incorporating quantitative data analysis, such as measuring spot sizes, areas, or proportions, to support observations and comparisons. This would strengthen the study's objectivity and facilitate comparisons with other research. • While the manuscript documents morph diversity, delve deeper into the potential ecological significance of these variations. Discuss how different morphs might influence factors like camouflage, thermoregulation, predator avoidance, or prey selection. Exploring these aspects can provide valuable insights into the adaptive benefits of polymorphism. • Briefly outline potential future research directions to advance our understanding of polymorphism in these ladybird species. This could include genetic studies to explore the heritability of morphs, ecological experiments to test hypotheses about their adaptive value, or investigations into the role of environmental factors in morph expression. 	
<p>Minor REVISION comments</p> <ol style="list-style-type: none"> 1. Is language/English quality of the article suitable for scholarly communications? 	<ul style="list-style-type: none"> • Ensure consistent use of correct terminology and avoid potentially ambiguous phrases. • Reduce redundancy and jargon to enhance clarity and focus on key points. • Refine sentence structure and transitions for smoother reading and better flow of ideas. 	

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Optional/General comments	Depending on the specific research focus, consider including recent studies on: <ul style="list-style-type: none">• Genetic basis of polymorphism in ladybird beetles• Environmental factors influencing morph selection and fitness• Ecological consequences of polymorphism in predator-prey interactions• Conservation implications of ladybug diversity	
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PART 2:

	Reviewer's comment	Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

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