

Review Form 1.6

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_90300
Title of the Manuscript:	General overview of climate change and global warming: Their effect on microorganisms
Type of the Article	Review Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<https://www.journalijecc.com/index.php/IJECC/editorial-policy>)

Review Form 1.6

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)
Compulsory REVISION comments	<p>The main focus of the manuscript is to review effects of climate change and global warming on microorganisms. However this is slightly addressed in the main text. The only section where it seems to appear in on pg. 2, second paragraph under the section “Effects of climate and environmental change on microorganisms”. This is shallow. Bearing in mind that this is a review article, there should more information about climate change and effects on microorganisms. The author needs to elaborate/explore more on this, giving more examples and/or case studies, reviews, studies etc. since this is the main focus of the study (title of manuscript). The section should be expanded in detail.</p> <p>Further more comments:</p> <p>i) Climate definition (pg. 1): <i>I feel that the definition given is not very appropriate (vague). The author uses the word ‘climate’ again to define climate.. Rather use the general climate description/definition.</i></p> <p>ii) Abbreviations/notations: <i>The author uses the abbreviation (CO2) later in the text (pg. 6), which is not defined. This is the short notation for carbon dioxide (first mentioned in pg. 2 in the text, but does not defined there). The standard format is that notations be used after defining/writing the words in full upon first mentioning. Only there after, then one can use the abbreviation, otherwise one should write the words in full for consistency.</i> <i>The same thing is done for N2 (pg. 4); where the author uses a notation N2 not defined anywhere before in the text.</i></p> <p>iii) Lost/misplaced sentences: <i>There appears some “lost” or misplaced sentences in the text (for example, pg. 3; In 14-15). It is not clear what the statement “Direct atmospheric carbon dioxide absorption into bodies of water” means here. It does not connect with the rest of the text. Either is an incomplete point or the author didn’t explain what this explains.</i></p> <p>iv) Some statements also appear not to connect (or not make sense) with the text. The author needs to re-phrase, edit or elaborate further in order to make them more readable, otherwise this makes the text to lack cohesion. For example, in paragraph 2 (pg. 2), In 4-6. “Climate change caused organic matter from bacteria, fungi, and algae to decompose, which increased the flux of carbon dioxide in the atmosphere and accelerated global warming [11, 12]” The whole sentence is not clear and/or seem not to relate with the text. The author needs to re-phrase or editing. The same applies also to the first paragraph 1 (pg. 3), In 1-2. By raising the temperature, the composition of the microbial population is changed, and reactions including respiration, fermentation, and methanogenesis are accelerated” What does the author refers to ‘by raising the temperature’..?? Who raises the temperature..? Is it the greenhouse gases or climate change? Perhaps the author meant to say ‘as a result of climate change, there is temperature rise and hence the change in composition of microbial population...</p>	
Minor REVISION comments	<p>i) Figure description: <i>The author makes reference to the figures but there is no clear description of it either within the text or in the figure caption. Figures are basically meant to illustrate a point. If there is no description of the figure, diagram, table etc. it would rather appear like it doesn’t serve any purpose or no need to show it.</i></p> <p>ii) Re-adjustment of points (pg. 7): Notes about Ozone should be separated from Methane (i.e. methane remain as point 2 while ozone becomes point 3 and so on..)</p> <p>iii) Re-phrasing/editing (pg. 8), In 10-12: The statement under the Conclusion section is not clear and/or needs re-phrasing. Some words appear repeating.. “In a way, it is no longer possible to postpone the implementation of climate-related commitments and commitments”. What does the author mean by ‘climate-related commitments and commitments?’</p>	
Optional/General comments		

Review Form 1.6

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:

Name:	M. Wiston
Department, University & Country	University of Botswana, Botswana