

**Review Form 1.7**

Journal Name:	<b>International Journal of Environment and Climate Change</b>
Manuscript Number:	<b>Ms_IJECC_113976</b>
Title of the Manuscript:	<b>Marine heat waves in the Indian Ocean: Characterizing a major climate impact on microalgae</b>
Type of the 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><b>Compulsory</b> REVISION comments</p> <p>1. <b>Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</p> <p>2. <b>Is the title of the article suitable?</b> (If not please suggest an alternative title)</p> <p>3. <b>Is the abstract of the article comprehensive?</b></p> <p>4. <b>Are subsections and structure of the manuscript appropriate?</b></p> <p>5. <b>Do you think the manuscript is scientifically correct?</b></p> <p>6. <b>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></p> <p><b><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></b></p>	<p><b>Yes, as it highlights on the effect of marine heat wave on marine ecosystem</b></p> <p><b>Yes</b></p> <p>It is not comprehensive, but appropriate.</p> <p>As it is review article, sections are there, but no sub-sections were provided.</p> <p>A full review on the effect of Marine heat waves on microalgae has been discussed extensively with proper references</p> <p>NA</p> <p>General Comments: [Introduction section]:</p> <ol style="list-style-type: none"> <li>1. Tropical Indian Ocean (TIO) should be Tropical Indian Ocean</li> <li>2. Second paragraph the line 'intense monsoonal wind blows.....is the reason for this' needs rephrasing to make the meaning more impactful</li> <li>3. Fourth paragraph last line 'effect of fast rising Indian Ocean'- does it mean level or what is fast rising??</li> </ol> <p>[Consequences of heat waves on Marine productivity]</p> <ol style="list-style-type: none"> <li>1. First paragraph second line 'ecological socioeconomic' or 'ecological and socioeconomic'??</li> <li>2. Same paragraph, two reference citation one with 'et al' in italics and one normal. Please use any one format</li> </ol> <p>[Algal blooms and marine heat waves: causes and effects]</p> <ol style="list-style-type: none"> <li>1. Please use author name in citation within text instead of a number when you are referring as 'The research of [32]'. It would be better if you cite 'the research of Gobler et al (2017) as mentioned in earlier section like Frohlicher et al (2018). It would be better to use either name of author or numerical citation within text. Such anomalies are seen in other sections too.</li> <li>2. Third paragraph – 'Global episodes of MHWs and their effects at selective locations on microalgae illustrated in table 1' should be 'Global episodes of MHWs and their effects at selective locations on microalgae is illustrated in Table 1'</li> <li>3. Third paragraph – 'These dangerous diatom produce' or 'These dangerous diatom produces'???</li> </ol> <p>[How marine heatwaves cause algal bloom]</p> <ol style="list-style-type: none"> <li>1. The line 'Therefore, a key link between marine heatwaves and microalgal blooms/composition and increased severity of stratification or ocean mixing and the ensuing changes in nutrient availability' seems incomplete</li> </ol> <p>[Microalgal cell size and elemental stoichiometry]</p> <ol style="list-style-type: none"> <li>1. First paragraph second last line 'effectively, such cyanobacteria and dinoflagellates' or 'effectively, such as cyanobacteria and dinoflagellates'</li> </ol> <p>[Conclusion]: 'This paper also lights up about most often the algal blooms are triggered by MHWs' can be rephrased as 'This paper enlightens that most often the algal blooms are triggered by MHWs'</p> <p>[Figures and tables]</p> <ol style="list-style-type: none"> <li>1. Figure 1 lack title axis for X-axis.</li> <li>2. Fig.3 and Fig.4 are not cited in text</li> </ol>	
<p><b>Minor</b> REVISION comments</p> <p>1. <b>Is language/English quality of the article suitable for scholarly communications?</b></p>	<p>Acceptable</p>	

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<b>Optional/General</b> comments	The normal manuscript guideline format for your esteemed journal is ARIAL font with font size 11 which is not maintained here. It is in Times New Roman with 12 font size. The author must follow the guidelines of the journal	

**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <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>
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

**Reviewer Details:**

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