



**SDI Review Form 1.6**

Journal Name:	<a href="#">International Journal of Environment and Climate Change</a>
Manuscript Number:	Ms_IJECC_56095
Title of the Manuscript:	Potential Impact of Climate Change on UK Potato Production
Type of the Article	Original Research 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:

<http://www.sciencedomain.org/page/sdi-general-editorial-policy>



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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)
<b>Compulsory</b> REVISION comments	<p>The paper titled “potential impact of climate change on UK potato production” present important results on climate change and propose some adaptation options. However, I recommend some important revision of the paper before its publication as follows: -</p> <ol style="list-style-type: none"> <li>1. The methodology part needs to be re-written to include the analysis of crop data, how potato yields were analysed and compared with climate variables. This need to be clear in the manuscript</li> <li>2. There is need to clarify the type of model that was used to simulate climate variables, its spatial resolution</li> <li>3. The limitation of the study is to use the monthly average data to explain daily variation of crop. If possible the author could use daily averaged monthly climate variables to evaluate reduction of rainfall or increase in temperatures on daily basis to have good conclusion of the results</li> </ol>	
<b>Minor</b> REVISION comments	<p>Data section</p> <ol style="list-style-type: none"> <li>1. This study used global climate simulation because the global model projection provides better climate variability and spatial[Not true, the global climate simulation poorly represent climate condition in many places and are not recommended to be used in regional climate assessment studies]</li> <li>2. The weather data used for this study was collected from the UK Met Office in 2019, basically using the recent UK climate projection model UKCP18 which is an improvement on the previous UKCP09 model to generate the required dataset[important information is missing, whaty is the resolution of the model, ?]</li> <li>3. absolute weather dataset (precipitation, maximum and minimum temperature) were obtained from the Global Land Projection (60km downscale) over the selected region in the UK. [what are you writing here?, climate variables from global land?]</li> </ol> <p>Data analysis section</p> <ol style="list-style-type: none"> <li>1. The analysed data for both the baseline and future scenario were plotted together on the same graph using Origin Lab 2016 software. This allows for comparison of mean values and standard deviation[How did you analyse the crop data? There is need to include analysis for the crop data]</li> </ol>	
<b>Optional/General</b> comments		



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**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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