## Review Form 1.6

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| Journal Name: | **International Journal of Environment and Climate Change** |
| Manuscript Number: | **Ms_IJECC_93992** |
| Title of the Manuscript: | **Modelling Wheat Productivity under Deficit Irrigation** |
| 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:

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

**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 | | |
| **Minor** REVISION comments | | |
| **Optional/General** comments | This research was carried out to simulate wheat growth under deficit irrigation across two cropping years (2020-21 and 2021-22) at Prayagraj, Uttar Pradesh India. Crop growth simulation models are useful for assessing the impact of water scarcity on crop productivity and crop yield. The AquaCrop model is one of these available options and this model is capable of simulating water productivity, grain yield, biomass yield, and canopy cover. Major inputs for the model in this investigation are climate, soil characteristics, plant attributes, and the management of crop cultivation. The results of the simulation revealed that the model accurately simulates grain yield, water productivity, biomass yield, and canopy cover at different amount of irrigation. | |

**PART 2:**

| | **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)* |
|---|---|---|
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in details)* | |

**Reviewer Details:**

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|---|---|
| Name: | **George Malaperdas** |
| Department, University & Country | **University of the Peloponnese, Greece** |