

Review Form 1.7

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_114481
Title of the Manuscript:	SPATIAL AND TEMPORAL DISTRIBUTION OF SOIL MOISTURE IN MAIZE USING FREQUENCY DOMAIN REFLECTOMETRY SENSOR
Type of the Article	Original Research Article

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PART 1: Review Comments

	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>
<p><u>Compulsory</u> 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>	<p>Yes, the manuscript is significant in scientific community especially in agriculture.</p> <p>Yes, the title is suitable.</p> <p>Yes, it is comprehensive.</p> <p>Yes, the subsections and structure are appropriate.</p> <p>Yes, the manuscript is scientifically correct.</p> <p>In the introduction, kindly add an explanation as to why soil moisture must be measured and its importance in the agricultural sector. Are there studies that have done this before that's why you've conducted this research since there are no cited researches? If there are, identify limitations that would serve as the research gap. Also, kindly cite relevant literature on the principle of the frequency domain reflectometry sensor and how it works.</p> <p>In the methodology, there are already data and results found such as in Table 1, which must be placed under the Results and Discussion section. In the methodology section, the focus must be on the plan, parameters needed to consider, the layout, set-up, and procedures for measuring the soil moisture. Also, include the specification of the device as your Table 1. It's good that you have considered the calibration.</p> <p>In the Results and Discussion, kindly include here the data on the soil specifications. As per observation, it is expected that the units are in hertz (Hz) since the domain is frequency. Kindly explain why the results are expressed in terms of percentages. Have you also considered the effect of growth in maize considering soil moisture measurement? Also, it would be better if you translate these results through Tables and some graphs for easy readability and visualization.</p> <p>In Conclusion, kindly make an overall generalization on the relationship between the soil depth, distance of emitter, frequency, and soil moisture content. Also, the conclusion must be with no bullets and in paragraph form.</p> <p>Kindly add more latest references.</p>	
<p><u>Minor</u> REVISION comments</p> <ol style="list-style-type: none"> 1. Is language/English quality of the article suitable for scholarly communications? 	<p>Yes, the quality of English is suitable.</p>	

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Optional/General comments		
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PART 2:

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

Reviewer Details:

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