



SDI Review Form 1.6

Journal Name:	International Journal of Plant & Soil Science
Manuscript Number:	Ms_IJPSS_24674
Title of the Manuscript:	Estimation of Regional Evapotranspiration based on Tri-Angle Method Using Thermal and VNIR Data.
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:

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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)
Compulsory REVISION comments	<ol style="list-style-type: none"> 1) The authors of this paper used the method of Jiang and Islam (1999, 2001, 2003) [JI] to estimate EF. However, they talk about the FI parameter as the Priestley and Taylor [PT] parameter, which is a misconception. JI method is a simplification of the method of PT. JI used the NDVI-LST relation to set a new parameter, the FI parameter. FI varies between 0 and 1.26. The value 1.26 is coincident with PT parameter. In short, the authors of this work are confusing the parameter of JI with PT parameter (see, for example, 152, 176 lines, etc.). 2) The authors speak of validation when in fact they are contrasting results obtained with two methodologies different to estimate ETA. You can use the term validation when the results of a methodology are compared with data measured in the field, otherwise you should discuss contrast or at most validation strategy. Moreover, it is not possible to say that a method is good or just bad because they are obtained good correlations with 7 control points. At least you should have 20 or 25 checkpoints in order to get reliable statistics. 	<ol style="list-style-type: none"> 1) We know that the method of [JI] is based on PT equation and they change the PT parameter original symbol from (α) to (ϕ) in their method and used LST-NDVI to parametrize ϕ and the PT equation. Despite they change the PT parameter symbol, they didn't recall it by a new name. In any case, I agree with the per reviewer and all modifications have been done according his opinion. 2) <p>Validation:</p> <p>Thanks for this valuable guidance for the validation and all modifications have been done according this guidance.</p> <p>Correlation:</p> <p>We traced the crops development from initial stage to late stage through using only available 7 imaging dates during the season. The 7 points represent 7 dates not 7 check points and every date represent an average value of 159, 107 and 115 check point which mean that every scatter plot contains 1113, 749 and 805 check point for wheat, potato and sugar beet respectively.</p>



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<u>Minor</u> REVISION comments	<ol style="list-style-type: none">1) Define Eta_FMP and Eta_CWS variables. They are displayed in Fig. 4.2) In the graph of sugar beet, the axes are reversed. It is therefore not comparable to the other figures. Modify the graph.3) Explain what kind of meteorological stations you used for field data, ¿Bowen, EdiCovariance, another ?, ¿which?.	All required modifications have been done.
<u>Optional/General</u> comments		