

Review Form 1.6

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_92964
Title of the Manuscript:	Patterns of meteorological drought over Massili basin using standardized precipitation evapotranspiration index
Type of the Article	Original 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	<p>Page 5</p> <ul style="list-style-type: none"> - $D_i = P_i - PET_i$: Sign - instead of +. - For mathematical point of view, the function f is not correctly written. In the second line, there is an excess of sign – in the second exponential function. In last line, write $\xi = 0$ insted of $\xi \neq 0$. - In function f, x is not a parameter, it is the variable of the function f. The shape parameter is ξ. The numerical values of parameters ξ, μ and σ have not been given. - In function F, the exponential function lacks a multiplicative factor. <p>Page 6</p> <ul style="list-style-type: none"> - For mathematical point of view, the function F is not correctly written. The variable x has been forgotten in the right hand side. The parameters α, χ, γ and β have not been defined. What is the link between this function $F(x)$ and the same function $F(x)$ defined at the end of the previous page ? <p>Page 7</p> <ul style="list-style-type: none"> - β_i: subscript i is not adapted because it has not a link with subscripts j and k. It should be most correct to replace the subscript i by n. <p>Page 12</p> <ul style="list-style-type: none"> - Reference 7 should be deleted as it is the same as in 4. <p>Page 13</p> <ul style="list-style-type: none"> - Reference 29 should be deleted as it is the same as in 27. - References 33 and 34 should be completed. 	
Minor REVISION comments	<p>Page 2</p> <ul style="list-style-type: none"> - Notation \$6-\$8 to be explained. - Reference number [12] has been forgotten. <p>Page 5</p> <ul style="list-style-type: none"> - Fonts has been changed at last line. <p>Page 6</p> <ul style="list-style-type: none"> - Fonts has been changed twice over. <p>Page 7</p> <ul style="list-style-type: none"> - Fonts has been changed after equation of Z_s - Writing to be improved at second line of sub-section 2.3.4. <p>Page 12</p> <ul style="list-style-type: none"> - Reference number 12 has not been cited in the text. 	
Optional/General comments	<p>This paper is devoted to the study of drought trends in the Massili basin in Burkina Faso, using the standardised precipitation and evapotranspiration index (SPEI). The methodology adopted is based on the choice of the Hargreaves method for the calculation of potential evapotranspiration necessary for the estimation of the SPEI. The Mann-Kendall test and the Sen slope estimator complete the study of trends and the magnitude of the drought. The paper is well written overall, but has shortcomings in the presentation of functions and equations in section 2.3 describing the methodology, and then in the literature references. The paper can be published after these errors have been corrected.</p>	

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?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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