



**SDI Review Form 1.6**

Journal Name:	<a href="#">Advances in Research</a>
Manuscript Number:	<b>Ms_AIR_25349</b>
Title of the Manuscript:	<b>Rainfall Variability in Sine Saloum River basin in a context of climate change and variability</b>
Type of the Article	<b>Original Research Article</b>

**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.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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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>1. Abstract : Should contain in short aim, objectives and important findings and utility of the study.</p> <p>2. Introduction: to be precise, short and to be written in small paras. Try to avoid too many references.</p> <p>3. Study area and data: present figure is not clear with lat/long, rivers &amp; basin and not showing physiographic features. It is just copied from site. Whether there is only one station viz. Foundiounne or the study region is river Sine-Saloum upto Foundiounne?</p> <p>4. Results and discussion: line no.178 to 179- we have counted 13 deficit years (30%)..... ? 13 or 30 deficit years? pl. correct.</p> <p>5. <b>Line No. 189</b> – Decadal period (10 yrs) should be well defined as 1971-1980, 1981-1990, 1991-2000, 2001-2010 and just mention the remaining 2011-2012 as recent period.</p> <p>6. Fig.3 (d) is missing – Pl. check.</p> <p>7. Line No. 214 – pl. correct Figure 4 as Figure 4e.</p> <p>8. Line No.244 – The 1971 is the most deficit year and 2007 the most surplus year whereas Line 272 and 297 - 1971 is the wettest year and 2007 is the least rainy. There is confusion between these sentences. Would author like to comment on this?</p>	<p>1.2. We thank reviewers for their remarks, suggestions and recommendations. These are well noted. In introduction, We have used too many references to raise the literature and to indicate importance of our paper.</p> <p>3. This figure is not copied from site. It was treated through the SRTM using ArcSWAT software and exported to KML.</p> <p>Foundiounne is not a river but a locality with a raingauge (called Foundiounne raingauge) and a streamgauge (called Foundiounne streamgauge) which corresponds to the outlet of the Sine Saloum River Basin (or Sine Saloum Watershed). In this study, we used data from the Foundiounne raingauge. The Fig.1 changed slightly</p> <p><b>Note that our study area is sine Saloum.</b></p> <p>4. Thank you for this remark, It is a mistake corrected in the final version of the paper.</p> <p>5. It is also a mistake taken into account in the final version of the paper. We have completely changed Fig. 3.</p> <p>6. It is a mistake which has been corrected</p> <p>7. It is ok. It is corrected</p> <p>8. Thank you for this remark, it is not confusion but a mistake that we have corrected.</p>
<b>Minor</b> REVISION comments	Avoid Repetition of words in the sentences.	We thank reviewers for this remarks, we take it in account.



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<p><b><u>Optional/General</u></b> comments</p>	<p>1. Authors have studied rainfall variation in Sine Saloum river basin with special emphasis on drought indices. Therefore, I would like to suggest to change the title of the paper accordingly as they have not considered many of the hydrological parameters.</p> <p>2. The topic is interesting and can be made more informative by giving physiographic features, temp.-rainfall variation, wind pattern, causes of droughts and annual discharge over the study basin,</p> <p>3. Most of the references are from Ph.D. thesis or conferences etc, besides many of the referred papers are in different language (other than English) therefore couldn't refer them.</p>	<p>1. That is true. We plan to study climatic parameters (rainfall, temperature,) and hydrometric (flow) .But due to lack of data, we limited ourselves to the rainfall parameters. The title was readapted. Thank you for this suggestion that is taken into account in the final version.</p> <p>2. Thank you for this appreciation and comments. We have pointed out in study area (Lines 91 to 110) the main physiographic characteristic of the Sine Saloum basin including temperature, rainfall. We added following the reviewers 'remarks wind pattern and annual discharge; the other elements as droughts are indeed developed in the text.</p> <p>3. Thank you for this remark. We have corrected errors and replaced references from Ph.D. thesis or conferences by references from papers related to the same.</p> <p>Thank you for your concern for accuracy, clarity and quality .This has strengthened us.</p>