



**SDI Review Form 1.6**

Journal Name:	<b><u>Physical Science International Journal</u></b>
Manuscript Number:	<b>Ms_PSIJ_33011</b>
Title of the Manuscript:	<b>COMPARISON OF INTERCONTINENTAL AEROSOLS: DESERT AND MONSOON-INFLUENCED REGIONS</b>
Type of the 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:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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**PART 1: Review Comments**

	<b>Reviewer's comment</b>	<b>Author's comment</b> (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>This is a very interesting paper that shows the contrast of the aerosol optical depth recorded at Zinder, Niger and Beijing, China. The main result is the different aerosol origin. At Zinder, desert dust particles prevail, whereas anthropogenic aerosol particles prevail at Beijing. Although the paper merits to be published, several changes must be introduced.</p> <p>Text should be revised by a native English teacher.</p> <p>Major changes.</p> <p>Since the information in Table 1 and Fig. 2a-2d seems to be the same, remove Table 1 and introduce a new Table 1 with differences between AOD in Zinder and Beijing. Replace comments from l. 88 to l. 108 by a single paragraph with comments about calculations of this new table.</p> <p>Figures should be consecutively introduced in text. In the current version Fig. 4 is introduced before Fig. 3. The number of the figure caption may be changed to correct this inconvenience.</p> <p>Analysis of curvature is interesting and should be introduced as one separated paragraph in l. 157.</p>	<ul style="list-style-type: none"> <li>❖ Table of difference between AOD in Zinder and Beijing introduced as suggested.</li> <li>❖ Comment about the newly introduced table has been used to replace comment form L. 88- L. 108.</li> <li>❖ Figures consecutively introduced in text as suggested</li> <li>❖ Curvature introduced as a separate paragraph</li> </ul>



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<p><b>Minor</b> REVISION comments</p>	<p>Aim, I. 3, introduce Niger after Zinder and China after Beijing.</p> <p>L. 39, write Zinder, instead of zinder.</p> <p>L. 43, write visibility.</p> <p>Change captions of Fig. 1 by Figure 1a Map of Niger with its main cities, and Figure 1b Map of China with some main cities.</p> <p>Since Figure 1a presents a scale, it should not be compressed in the Y axis.</p> <p>Revise the sentences in I. 145-147.</p> <p>Explain the sentences in I. 175-176.</p>	<p>L. 3. Correction effected</p> <p>L. 39. correction effected</p> <p>L. 43. Correction effected</p> <p>Caption changed</p> <p>Figure 1a decompressed</p> <p>L. 45-147. Sentence revised and correction effected</p> <p>L. 175-176 Moreover, the curvature is more significant under high turbidity condition. This implies low curvature, high AOD and high <math>\alpha'</math>-values.</p> <p>Explanation: Dust aerosols usually originate from single source, the mineral dust. Thus, 'variation of aerosol type' is not much in the desert which is the major factor responsible for curvature formation. On the other hand, anthropogenic aerosols in Beijing are considered to have formed from different aerosol sources and types that is why curvature is more pronounced in the region. So low visibility (high turbidity) is common where aerosol type is anthropogenic, and anthropogenic aerosols usually originate from different sources of aerosol. This implies that turbidity is low where curvature is high and vice</p>
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<b><u>Optional/General</u></b> comments		