



SDI Review Form 1.6

Journal Name:	Physical Science International Journal
Manuscript Number:	Ms_PSIJ_31581
Title of the Manuscript:	SPATIAL VARIATION MODELING OF GEOTHERMAL GRADIENT AND HEAT FLOW IN EASTERN PARTS OF NIGER DELTA SEDIMENTARY BASIN, NIGERIA.
Type of the Article	Review paper

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>)



SDI Review Form 1.6

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	Line 149: It is not clear from the study how tectonic evolution, depth to basement, sedimentary thickness and hydrothermal convection influence the thermal regime. The author may have relied on existing literature to make this claim. If this claim cannot be substantiated with the results of the present study, it should be deleted. Line 252: This claim cannot be substantiated from the present study. It would not be enough to claim the there is low radioactivity in the area because the results have shown relatively low geothermal gradient and heat flow. If the author cannot substantiate his claim from the present study, it should be deleted.	
Minor REVISION comments	Line 7: put "of" before "geothermal" Line: 38: change reserved to reserve Line 52: remove Anomoharan⁵ and replace with [5] for consistency. Line 64: change techniques to technique Line 70: change is to are Line 72: change involved to involes. Also, the sentence should be rephrased..... suggestion: ...estimation at un-sampled points. Line 103: change well logs to well log Line 112: change patterns to pattern Line 121: change explain to explains Line 122: change parameter to parameters Line 125: change obtain to obtained Line 130: change measurement to measurements Line 137: change provides to provide Line 154: change "geostatistical the study" to "the geostatistical study" Line 154: delete the second sentence which starts with " The geother....." up to Line 159. This is repetition as it has been	



SDI Review Form 1.6

	reported in Lines 105 to Line 108. Lines 161 – 163: “These statistics were used” Should be re-phrased to reflect what was actually done. Line 235: change variograms to variogram Line 237: change value of variances to “ values of variances” Line 249: change infers to inferred.	
Optional/General comments		

Reviewer Details:

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