



SDI Review Form 1.6

Journal Name:	Asian Journal of Environment & Ecology
Manuscript Number:	Ms_AJEE_39135
Title of the Manuscript:	APPLICATION OF SWAT AND 3D ENVIRONMENT IN FLOOD DETECTION SENARIO OF TERENGGANU WATERSHED
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	Nice idea of SWAT. This new idea is highly innovating and quite interesting, However there is no aim for this study and there is no objective, it looks like a proposal? The manuscript has many conditional statement and as a scientific study it does not show a specific result. There should is no indication of Land use/land cover analysis in the manuscript. There is no projected slope map of the study area. How did SWAT analysis incorporate all these basic factors in the flood risk map? Page two second paragraph, formed in 1932. Fig. 1 is not properly labelled and there is not interpretation of the numbers Who is your data provider, where did you acquired ASTER In page 5 no. C: which of the optional datasets did you apply in this study? .tiff or shapefiles? Whichever it is, why did was it chosen and what data does the .tiff or shapefile contains? Is it a raster dataset of shapefiles what kind of raster datasets, maps or a satellite image, if satellite image what's the property of the image? There is a number of issues with this ArcSWAT software or maybe it was not included in the manuscript, there is no clear understanding of this paper. How is your data acquired and what is the exact data acquired and their properties.	Aim and objectives are clearly defined and corrected All the findings are scientific base on remote sensing and GIS software ArcSWAT 2012 and ArcGIS10.3. (Refer to all the designed models in the paper sir). The map project we used is rectified skewed orthomophc for Peninsular Malaysia (called Kertua). The DEM from ASTER DEM with UTM projection. All others; slope landuse and slope are Kertua for proper and accurate georeferencing. Thank you. Figure 1 is revisited the numbers labelled are the locations of sub-basins in the watershed. The model has legend at right side below. The DEM is in .tiff file, the raster data uses raster calculation in ArcGIS and covered to shapefiles. The vector data are digitized line, point and polygons. The image is from ASTER-DEM registered and downloaded with 30 meters resolution as stated in the methodology. Other dataset of climates were obtained from Drainage and Irrigation Department Malaysia with registered permission from the Universiti Malaysia Terengganu.
Minor REVISION comments	Please review the following sentences: We can simple check those relevant extensions Most of the outputs data have shown are properly compared in the ArcSWAT and the satellites image data are recently acquired using Landsat. Please properly proofread the manuscript for grammatical errors	All grammar and long sentences are corrected Yes, is of recent from our laboratory Thank you for this review.
Optional/General comments		