Response 2

Q : Could you please clarify the rationale behind selecting only the RCP 8.5_Upper limit for this analysis?

R : The discussion revolved around selecting various elevation levels to input into the SLAMM software. The RCP 8.5_Upper scenario was chosen because it is the highest scenario published by the IPCC so far. We wanted to understand the impacts by considering the worst-case scenario.

Q : The citation (CEDEO, 2013) and reference at page 19 line 219 needs to be corrected: it should rather be CEDEAO, 2013 or ECOWAS, 2013.

R : Corrected

Q : “In (Troll 1965) classification (1965)” must be corrected

R : Corrected

Q : “and it is inhabited by a population of 2.7 million people” It would be interesting to include the proportion of the 2.7 million people in relation to the national population, which would help assess the significance of this figure.

R : Revised. The population of the Benin coastal zone represents approximately 22.5% of the national population.

Q : Why does the website format differ from the rest of the text, as seen in “Available at http://warrenpinnacle.com/prof/SLAMM6/'?” the same applies for “website https://www.earthdata.nasa.gov/.”

R : Corrected

Q : In Table 2, specifically in row 7, when you mention 'Historic Trend (mm/yr),' could you please clarify what you are referring to with “historic trend”? please avoid abbreviation of input parameters unless you describe them in the caption

R : clarified

Q : In Figure 3, could you please specify the areas represented by the purple and blue boxes? It would be helpful to provide this information in the figure caption."

R : Has been specify

Q : Figure 4, it would enhance clarity to maintain consistent border colors around each location. This will improve visual consistency.

R : I didn't quite grasp your suggestion, but I can say that the rightmost borders are different from the left because the area that was zoned on the right doesn't appear along the edge of the map like the one on the left.

Q : In Figures 2, 3, and 4, consider using letters (e.g., A, B, C, ...) to differentiate between the illustrations within each figure. Additionally, provide detailed descriptions in the figure captions for better comprehension.

R : Has been consider

Q : Regarding Figure 5, kindly indicate the source of the sea level projection presented in this figure.

R : The source has been indicated. This figure is derived from modeling with SLAMM. In addition to the figures generated by the model, it also produces an Excel spreadsheet that contains the numerical data we have depicted in graphs.

Q : On page 16, lines 42-43, where you mention, “This process causes an annual transport of 1,500,000 cubic meters of sand 42 from Lomé to Cotonou.” could you please provide key reference(s) to support this information?

R : Reference supplied

Q : Page 17- Line 122-123 “The erosion process leads to the emission of carbon into the atmosphere, generated by human activities and other sources.” Please provide more details and references to justify your statement

R : Reference supplied

Q : On Page 17, Lines-123-125 “Annually, approximately 500,000 individuals in West Africa face the peril of flooding and escalating coastal erosion, leading to substantial economic losses. Please provide references to support your statement

R : Reference supplied

Q : The statement “In 2013, these losses were estimated to account for 2.3% of Togo's 125 GDP, while in 2014, they amounted to 3.2% of Mauritania's GDP.” Need to be supported with key references

R : Reference supplied

Q : On page 18, Line 132-135: “Comparable circumstances are evident in Senegal, where annual floods impact approximately 133 200,000 individuals and generate an estimated average cost of $89 million per year. Particularly noteworthy are the exceptional floods experienced in 2009, which resulted in significantly higher damages totaling $104 million in Dakar”. Please, again support your sentences with key references.

R : Reference supplied

Q : Page 18, line 143: "One notable impact of sea level rise and droughts is the intrusion of saltwater." I do not see the necessity of discussing the effects of drought here.

R : Has been removed

Q : The Conclusions section lacks mention of the reduction in carbon sequestration issue, despite it being one of the main objectives of this analysis.

R : Improved