

REVIEWER'S REPORT

Manuscript No.: IJAR-54185

Title: Mapping Anthropogenic Pressures in the Bandama River Basin (Côte d'Ivoire): A Multicriteria Approach Integrated with GIS,

Recommendation:

Accept as it is

Accept after minor revision.....

Accept after major revision

Do not accept (*Reasons below*)

| Rating | Excel. | Good | Fair | Poor |
|----------------|--------|------|------|------|
| Originality | | | Fair | |
| Techn. Quality | | | Fair | |
| Clarity | | | Fair | |
| Significance | | | Fair | |

Reviewer Name: Dr G. Renuka

Date: 05th Oct @025

Detailed Reviewer's Report

Short Review Comments

Title & Abstract:

- Clear and informative; highlights methodology (AHP + GIS) and study area.
- Suggest adding brief mention of validation and quantitative results in abstract.

Introduction:

- Provides good context on tropical basins and anthropogenic pressures.
- Could include more recent references and explicitly state the research gap.

Materials & Methods:

- Comprehensive description of the basin and data sources.
- Needs details on land use classification, population data integration, and consideration of soil/slope effects.

Methodology (AHP + GIS):

- Appropriate use of AHP for weighting factors; GIS integration is robust.
- Suggest showing a sample pairwise comparison matrix and discussing uncertainties.

Results:

- Clearly identifies main pressures: hydraulic infrastructures (56%), land use (32%), population density (12%).
- Maps effectively show spatial trends; could include quantitative stats for sub-basins and ecological impacts.

Discussion & Conclusion:

- Emphasizes need for integrated water management.
- Could expand on mitigation strategies, socio-economic impacts, and comparison with other basins.

Figures & References:

- Figures are informative; ensure proper labeling.

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- References need updating with recent studies and uniform formatting.

Overall:

- Well-designed study combining MCA and GIS for mapping pressures.
- Minor revisions needed for methodology clarity, discussion depth, and updated references.