

Review of manuscript: *“Flood risk assessment due to cyclone induced dike breaching on coastal areas of Bangladesh”.*

Overview:

The paper has further improved from the previous version, and provides a clear explanation of its methodology and case results. The abstract, introduction and conclusion also now ensure the work is given better context for international readers. The authors should also be commended for their thorough responses to the issues raised, which makes subsequent reviews much less demanding.

The general comments I had previously made (methodology, message and English) have all been addressed, as well as all the specific comments. I therefore suggest the paper to be ‘accepted subject to minor revisions’, suggestions for which are given below. While most are suggestions or very minor mistakes, the issue with the HEC-RAS boundary conditions is important and should be considered.

Comments:

Abstract

- P1, Line 25: CycloneS
- P1, Line 27: LocationS

Introduction

- P3, Line 15-20: This seems to be a repeat of the abstract. Consider reducing or rewriting.

Study Area

- P2, Line 1: 80% of the polder is at 1.55m? I assume the authors mean 80% is above/below 1.55m or that 80% of the polder has an elevation of about 1.55m. Please clarify.
- P2, Line 2: MSL: the term has not been used before, please add (mean sea level)
- P2, Line 6: Do these figures relate to this polder specifically? I.e. did 94 people die in this polder?

Methodology

- P7, line 3: “...using discharge as the west boundary and water level as the east boundary conditions”. Why is this done? It seems that the sea level (i.e. water level boundary condition) will dominate the entire stretch on both 1D sections, and using Q as a BC just complicates things.
- P7, Line 5: “HEC- 5 RAS generates mesh with irregular shapes.” I think this can be removed, or changed to ‘meshes’.
- P13, line 4: “The adapted depth-damage curves are obviously simplistic ones.”. I don’t think this is needed

Conclusions

- P22 Lines 22 – 26: For me there is no need to use the values here, they are already explained above.
- P22 Line 23: Comma and full stop after equal