Title: Modeling and Simulation of Tsunami Impact: A Short Review of Recent Advances and Future Challenges

1.1 Motivation: The paper aims to address the pressing need for advancements in tsunami impact modeling and simulation. Motivated by the devastating consequences of tsunamis, the study seeks to contribute valuable insights to enhance our understanding of tsunami behavior.

1.2 Contribution: The research makes a significant contribution by presenting a concise review of recent advances in tsunami modeling and simulation. By synthesizing existing knowledge, the paper aims to provide a foundation for further research and practical applications in mitigating the impact of tsunamis.

1.3 Methodology: The methodology employed in this study involved an extensive literature review focused on tsunami impact modeling and simulation. The authors systematically surveyed various methodologies, encompassing numerical modeling techniques, statistical analyses, and empirical studies. Through a meticulous examination of each method's applicability and limitations, the research aimed to construct a cohesive overview of recent developments in tsunami modeling, providing a foundation for the subsequent analysis and synthesis presented in the paper.

1.4 Conclusion: The paper concludes by summarizing the key findings from the literature review. It emphasizes the importance of continued research in this area to address the complexities of tsunami impact modeling. The conclusion also points towards potential future directions for research and practical applications.

2.1 First Limitation: The paper acknowledges the inherent limitations of the reviewed literature, such as variations in modeling approaches, data availability, and potential uncertainties in predicting tsunami impacts. The authors critically assess the reliability and generalizability of the existing models.

2.2 Second Limitation: Another limitation identified is the potential gaps in the literature, including areas that may not have been thoroughly explored or addressed. This limitation emphasizes the need for future research to fill these gaps and enhance the overall understanding of tsunami impact modeling.

3. Synthesis: In synthesizing the findings, the paper underscores the crucial link between academic research and real-world applications. By bridging theoretical advancements with practical implications, the synthesis emphasizes the potential for implementing improved tsunami modeling techniques in early warning systems and coastal planning. Furthermore, the paper encourages interdisciplinary collaboration to propel future research towards innovative solutions for enhancing community resilience against tsunami impacts.