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Posters 1

[KSxAOV1I-11] CLIMATE CHANGE, FLOOD INDUCED DISASTERS AND THEIR MANAGEMENT IN NEPAL

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South Asian country Nepal, although being one of the less greenhouse gases emitting countries, has been affected by the adverse impacts of climate change. Studies have expressed concern that the general rise in temperatures at high alti¬tudes poses a serious environmental and humanitarian threat in Nepal. It is a fact that such a threat extends from glaciers to the ocean. In this study, I have analyzed the future projection of climatic changes in Nepal and found that future temperatures will rise whereas precipitation will decrease for 2050. The results from this study have shown a great concern for the sustainability of water resources in the rivers of Nepal.

Water is one of the main natural resources of Nepal. This study has considered flood induced disasters and their management in Nepal. The yearly flooding is one of the catastrophic events that cause casualties in the country. The severe flood events generally appear in monsoon season that is June to September. Floods of 26-28 September, 2024 killed more than 250 people especially in the capital city Kathmandu and nearby regions. In Nepal, from the records of 1971-2018, flood is the first biggest cause for family and house damages. It is within the category of fourth most severe factors to cause casualties among different multi-hazard cases.

Therefore, a holistic approach is required for the implementation of flood disaster reduction works accommodating other basin communities, academia, scientific organizations, NGOs, volunteering organizations along with private sectors. It is a need of time to invest more in pre-disaster management programs and adopt best strategies. In a nutshell, active participation and cooperation among all stakeholders should be promoted in order to reduce casualties and property damages from the yearly occurring flood induced disasters and extreme cases of climate change in Nepal.

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