

## **PIAHS Volume 387, 2024 - Mountain Hydrology and Cryosphere**

The International Conference on Mountain Hydrology and Cryosphere, Kathmandu and Dhulikhel, Nepal, 9–10 November 2023

**Editor(s):** R. B. Kayastha, H. K. Shrestha, and D. Pradhananga

### [Preface: Mountain Hydrology and Cryosphere](#)

Rijan Bhakta Kayastha, Hari Krishna Shrestha, and Dhiraj Pradhananga  
Proc. IAHS, 387, 1–2, <https://doi.org/10.5194/piahs-387-1-2024>, 2024

### [Assessing the characteristics of extreme floods in Nepal](#)

Aabhash Bhattarai, Utsav Bhattarai, Koshish Raj Maharjan, and Laxmi Prasad Devkota  
Proc. IAHS, 387, 3–8, <https://doi.org/10.5194/piahs-387-3-2024>, 2024

### [Impact of changes in climate and glacier configurations on runoff from the Langtang River basin, Nepal](#)

Dhiraj Pradhananga, Susa Manandhar, Bharat Dhungana, Manavi Chaulagain, Bhola Nath Dhakal, and Sunil Adhikary  
Proc. IAHS, 387, 9–15, <https://doi.org/10.5194/piahs-387-9-2024>, 2024

### [A hybrid approach to enhance streamflow simulation in data-constrained Himalayan basins: combining the Glacio-hydrological Degree-day Model and recurrent neural networks](#)

Dinesh Joshi, Rijan Bhakta Kayastha, Kundan Lal Shrestha, and Rakesh Kayastha  
Proc. IAHS, 387, 17–24, <https://doi.org/10.5194/piahs-387-17-2024>, 2024

### [Coupling the Glacio-hydrological Degree-day Model \(GDM\) with PCRaster for spatial dynamic modeling of Himalayan river basins](#)

Kundan Lal Shrestha, Rijan Bhakta Kayastha, and Rakesh Kayastha  
Proc. IAHS, 387, 25–31, <https://doi.org/10.5194/piahs-387-25-2024>, 2024

### [Potential of tree-ring chronologies for multi-centennial streamflow reconstructions: an insight from Nepal](#)

Narayan P. Gaire, Yub R. Dhakal, Santosh K. Shah, and Ze-Xin Fan  
Proc. IAHS, 387, 33–39, <https://doi.org/10.5194/piahs-387-33-2024>, 2024

### [Using radiotracers <sup>137</sup>Cs and <sup>210</sup>Pb to document climate change in mountain areas through the estimate of soil erosion rates](#)

Paolo Porto  
Proc. IAHS, 387, 41–46, <https://doi.org/10.5194/piahs-387-41-2024>, 2024

### [The study of riparian areas in tourism: toward a conceptual framework of riparian tourism](#)

Rajiv Dahal and Shamik Chakraborty  
Proc. IAHS, 387, 47–51, <https://doi.org/10.5194/piahs-387-47-2024>, 2024

### [Hydropower potential of the Marsyangdi River and Bheri River basins of Nepal and their sensitivity to climate variables](#)

Rakesh Kayastha, Rijan Bhakta Kayastha, Kundan Lal Shrestha, and Smriti Gurung  
Proc. IAHS, 387, 53–58, <https://doi.org/10.5194/piahs-387-53-2024>, 2024

[Glacial lake outburst flood \(GLOF\) modeling of Tsho Rolpa glacial lake, Nepal](#)

Rijan Bhakta Kayastha and Sunwi Maskey

Proc. IAHS, 387, 59–63, <https://doi.org/10.5194/piahs-387-59-2024>, 2024

[Backwater effect in lowland regions due to bridge structure: a case study of Shreekhandapur, Kavre, Nepal](#)

Rizbi Buddhacharya, Sailesh Maharjan, Rupesh Choudhary, Shyam Sundar Khadka, and Santosh Chaudhary

Proc. IAHS, 387, 65–71, <https://doi.org/10.5194/piahs-387-65-2024>, 2024

[Augmented-reality-based snow visibility simulation for disaster preparedness in the Western Himalayas](#)

Sanjay Saifi and RAAJ Ramsankaran

Proc. IAHS, 387, 73–77, <https://doi.org/10.5194/piahs-387-73-2024>, 2024

[Landslide hazard mapping of Wayanad District of Kerala, India, incorporating copula-based estimation of joint probability of rainfall](#)

Shamla Dilama Shamsudeen and Adarsh Sankaran

Proc. IAHS, 387, 79–86, <https://doi.org/10.5194/piahs-387-79-2024>, 2024

[Review on assessing climate-change-induced risks to run-of-river hydropower infrastructure in Nepal](#)

Shraddha Kadel, Santosh Chaudhary, and Shyam Sundar Khadka

Proc. IAHS, 387, 87–93, <https://doi.org/10.5194/piahs-387-87-2024>, 2024

[Assessment of permafrost-related hazards in China: based on Chinese literature](#)

Silian Pan, Prashant Baral, and Miriam Jackson

Proc. IAHS, 387, 95–101, <https://doi.org/10.5194/piahs-387-95-2024>, 2024