Spatio-temporal variability in glacier melt contribution in Bhagirathi river discharge in the headwater region of Himalaya

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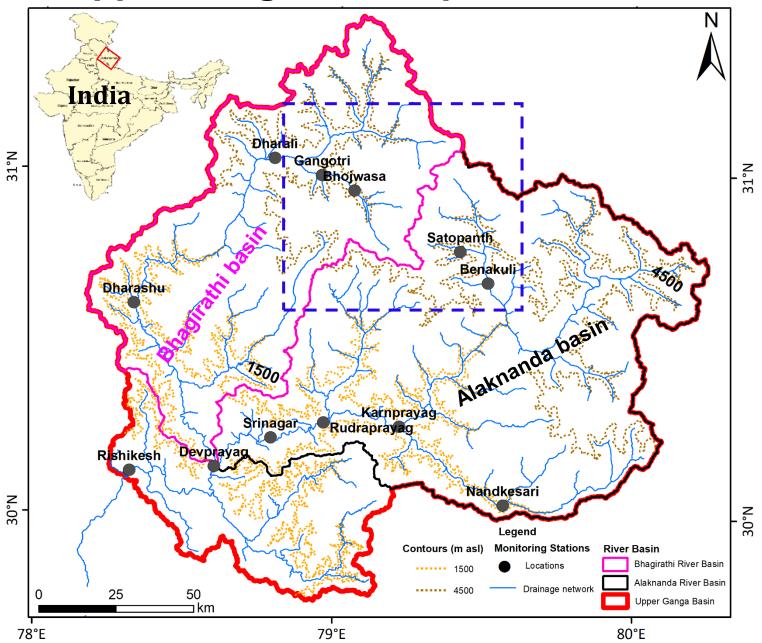
National Institute of Hydrology, Roorkee, Uttarakhand, India

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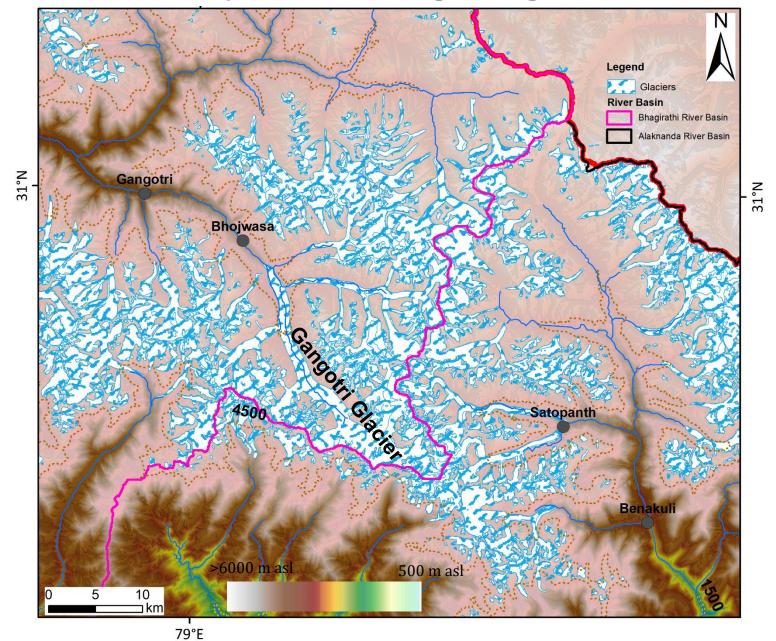


Upper Ganga basin up to Rishikesh



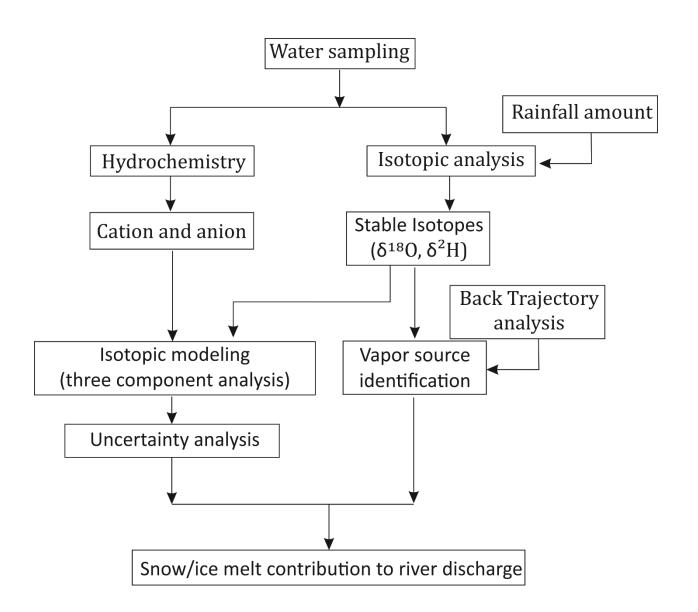


Study area: Gangotri glacier



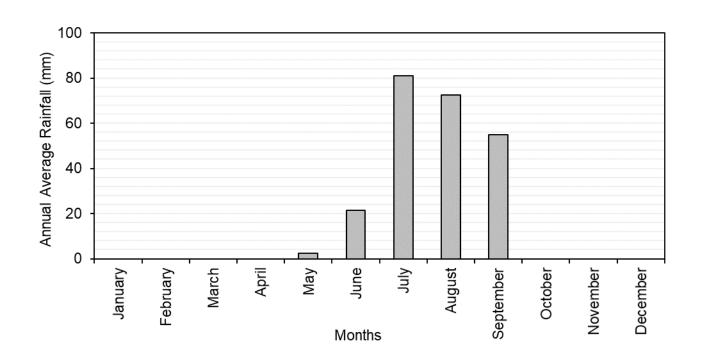


Approach



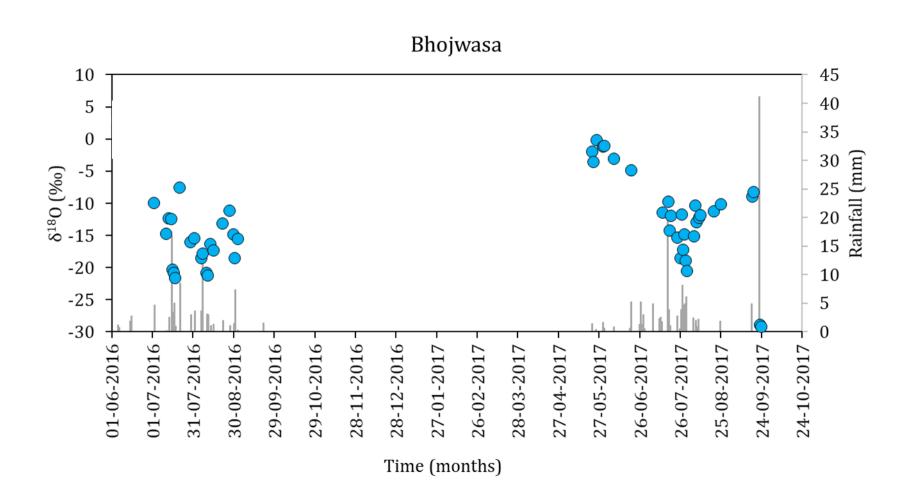


Annual Average Rainfall (mm)



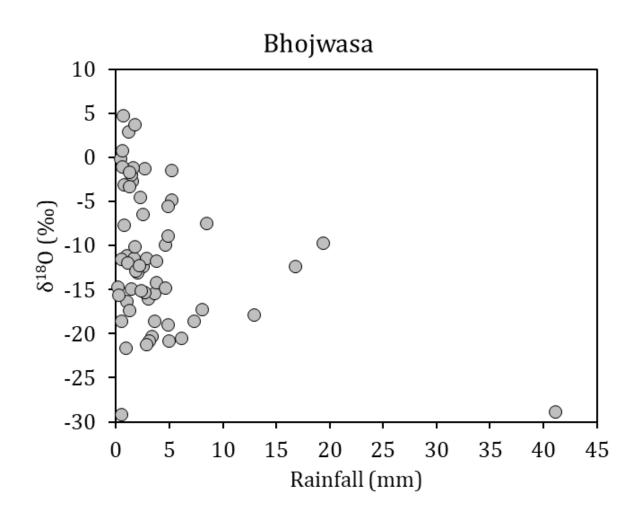


Temporal variation of $\delta^{18}O$ and rainfall amount



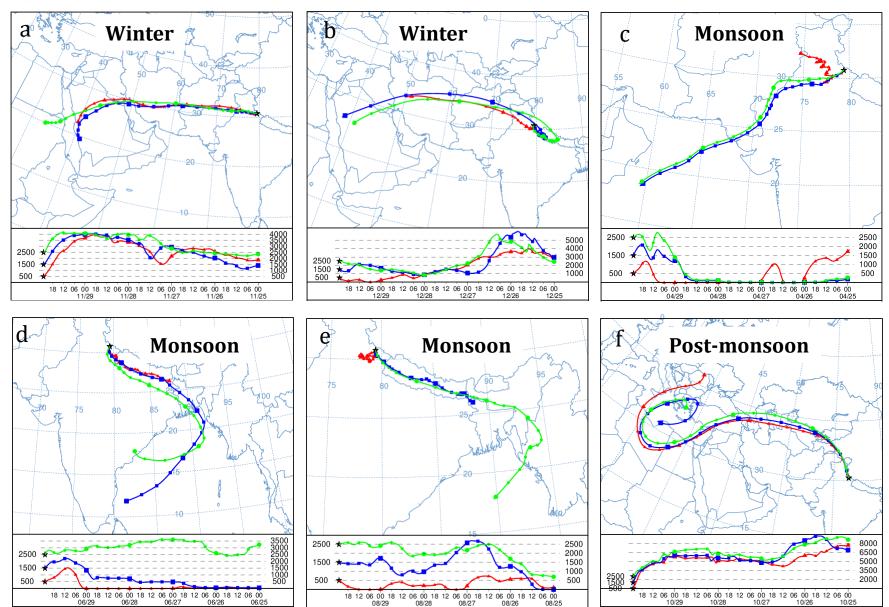


Rainfall amount vs. δ¹⁸O



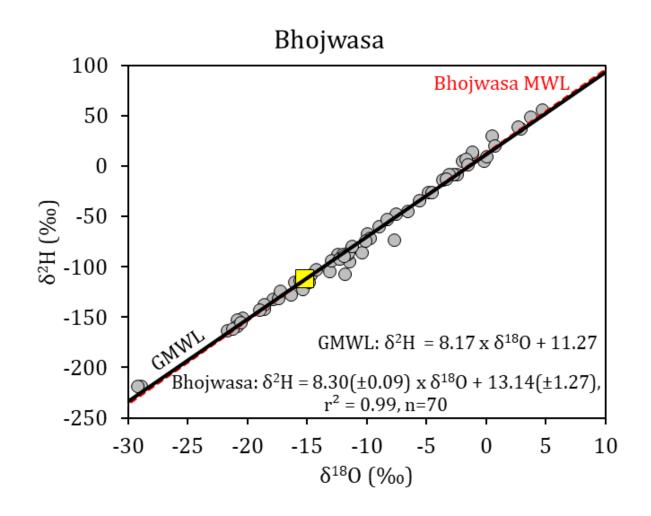


Moisture source for precipitation



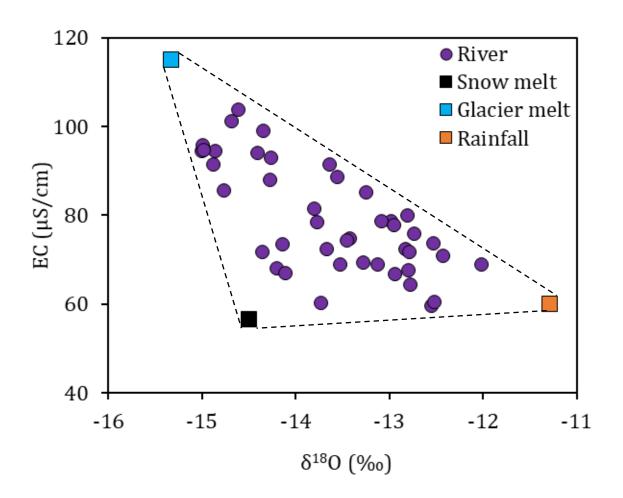


Isotopic composition of rainfall at Bhojwasa





End-member mixing diagram





Relative contribution at Bhojwasa

