

A COMPREHENSIVE STUDY OF THE DYNAMICS OF THE CLIMATE BHAGIRATHI-ALAKNANDA BASIN OF UTTARAKHAND HIMALAYA

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ABSTRACT

The complex topography of Uttarakhand Himalaya has caused several microclimates in the region. These microclimates are substantially sensitive to the present context of global climate variability. Though the climate dynamism in those micro-climatic locales is difficult to comprehend, it is a significant part of global climate research, especially to grasp the influences of global change on the socio-ecological frameworks of the Himalayas and to appraise the versatile limit of the adaptive capacity of the community networks. This paper explores the dynamics of the regional climate in the Garhwal Himalaya in reference to the meteorological records of the last six decades (1956-2015) at observatories in the Bhagirathi-Alaknanda Basin. The findings illustrate that the climates of the basin are changing, with variable rates across the observatories situated at different eco-hydrological zones.

KEYWORDS: Uttarakhand Himalaya & Climate Bhagirathi-Alaknanda Basin

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