

CHAPTER 2

Non-Native Invasive and Native Range Shifter Plant Species in Alpine Himalaya: A Major Threat to Biodiversity of Alpine Meadows

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ABSTRACT

Himalayan alpine alpine are currently threatened by climate change and its implications, which include the invasion of non-native species and range shifting by native plants. This type of invasion alters alpine ecosystem dynamics such as nutrient cycling, reproductive success, biological features, and, ultimately, the existence of native alpine plants. This chapter tries to investigate Indian Himalayan Region invasiveness in its alpine habitat and the reasons for it. It also sheds light on the positive and negative interactions between native and non-native species, the tree line dynamics, and the range-shifting plant dynamics in the region, as well as possible management.

2.1 INTRODUCTION

The Indian Himalayan Region (IHR) alpine meadows are recognized for their remarkable biodiversity, harboring notably different floras with ecological

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