

Vishwambhar Prasad Sati

Sustainable Tourism Development in the Himalaya: Constraints and Prospects

Environmental Science and Engineering

Series Editors

Ulrich Förstner, Technical University of Hamburg-Harburg, Hamburg, Germany

Wim H. Rulkens, Department of Environmental Technology, Wageningen,
The Netherlands

Wim Salomons, Institute for Environmental Studies, University of Amsterdam,
Haren, The Netherlands

More information about this series at <http://www.springer.com/series/7487>

Vishwambhar Prasad Sati

Sustainable Tourism Development in the Himalaya: Constraints and Prospects



Springer

Vishwambhar Prasad Sati
Department of Geography and Resource
Management
School of Earth Sciences
Mizoram University (A Central University)
Aizawl, Mizoram, India

ISSN 1863-5520 ISSN 1863-5539 (electronic)
Environmental Science and Engineering
ISBN 978-3-030-58853-3 ISBN 978-3-030-58854-0 (eBook)
<https://doi.org/10.1007/978-3-030-58854-0>

© The Editor(s) (if applicable) and The Author(s), under exclusive license to Springer Nature Switzerland AG 2020

This work is subject to copyright. All rights are solely and exclusively licensed by the Publisher, whether the whole or part of the material is concerned, specifically the rights of translation, reprinting, reuse of illustrations, recitation, broadcasting, reproduction on microfilms or in any other physical way, and transmission or information storage and retrieval, electronic adaptation, computer software, or by similar or dissimilar methodology now known or hereafter developed.

The use of general descriptive names, registered names, trademarks, service marks, etc. in this publication does not imply, even in the absence of a specific statement, that such names are exempt from the relevant protective laws and regulations and therefore free for general use.

The publisher, the authors and the editors are safe to assume that the advice and information in this book are believed to be true and accurate at the date of publication. Neither the publisher nor the authors or the editors give a warranty, expressed or implied, with respect to the material contained herein or for any errors or omissions that may have been made. The publisher remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

This Springer imprint is published by the registered company Springer Nature Switzerland AG
The registered company address is: Gewerbestrasse 11, 6330 Cham, Switzerland

Preface

Tourism, mainly pilgrimage tourism, is a centuries-old practice in the Uttarakhand Himalaya. The description of the highland and river valley pilgrimages is mentioned in the famous religious wisdom of Hinduism such as the Mahabharata and the Ramayana. Historical pieces of evidence depict that the Pandavas while proceeding to the Swarga (heaven) from Uttarakhand constructed the Kedarnath temple during the Dwapar Yuga.¹ Although the Badrinath temple was very ancient, it was renovated by Adi Guru Shankaracharya during the nineteenth century (820 AD). Likewise, the temples of other pilgrimages were constructed during the ancient period, and many of them were renovated by Shankaracharya, such as the temples of Jageshwar and Adi Badri. The Ganga River, a lifeline and a way of life for the people of Northern India, is pious and eminent. It originates and flows from the Uttarakhand Himalaya. The Hindus call it ‘The Mother Ganga,’ and it is one of the most important pilgrimages. Most of the river valley and the highland pilgrimages are situated along the Ganga River. The word ‘Ganga’ is pronounced in all the rituals and performed by the people on a day-to-day basis. Its water is pious, life-supporting, and used in all the auspicious occasions from birth to death. It is symbolized as nectar, which provides immortality.

Besides the world-famous pilgrimages, the Uttarakhand Himalaya is bestowed with numerous natural locales for practicing natural and adventure tourism. The landscape is spectacular with varying topographies from the river valleys to the middle altitudes, the highlands, the alpine meadows, and the snow-clad mountain peaks, which are the geographical components of tourism. The national parks and wildlife sanctuaries are the other major eco-tourism destinations. The natural locales include famous summer resorts, where climatic conditions are very feasible during summers. The tourists from the Ganges valley and the rest of India visit these natural locales during the summers to escape themselves from the sunstrokes. Adventure tourism including river-rafting, mountaineering, trekking, and skiing is very popular in the Uttarakhand Himalaya. During the winter season, heavy

¹According to Hindu mythology, there were four Yugas—Satyuga, Tretayuga, Dwaparyuga, and Kalyuga. Now, we are living in Kalyuga.

snowfalls up to the middle altitudes (1600 m); therefore, the tourists visit these destinations. Besides, rural and health tourism are growing areas with enormous prospects.

‘Atithi Devo Bhavah,’ Guest is God, is the key mantra (belief) of people of the Uttarakhand Himalaya, which they have been following for the centuries. Here, the people are peace-loving, welcome the tourists/pilgrims as God. Further, various cultural components of tourism—pilgrimages, fairs, and festivals—support sustainable tourism development. Folklores—songs and dances, foods and beverages, and art and crafts—are the other prominent aspects of tourism development. Sustainable tourism can be practiced by integrating folk culture with the natural attraction of tourist locales.

The entire Uttarakhand Himalaya is known as the ‘Land of Gods and Goddesses’ (Dev Bhumi). The mountains, rivers, and forests are named after Gods and Goddess and the fairs and festivals are celebrated to appease them, almost every month. A proverb ‘Where folk dances with nature’s rhythm’ is very popular and befitting to this region. This is also the reason behind the peace-loving nature of the people. The strong background of rich culture and custom further accelerates the high potential of sustainable tourism development of the region.

Although the Uttarakhand Himalaya has plenty of natural and cultural places of tourists/pilgrims’ interests, it lags in substantial infrastructural facilities—transportation, accommodation, and institutions—for tourism development. Inaccessibility, remoteness, and fragility of the landscapes are the major hindrances for the development of infrastructural facilities. Roads are traversed only along the river valleys and in the middle altitudes. Further, the road condition is bad. Landslides along the roads are very common, mainly during the rainy season. This leads to severe roadblocks and accidents. Accommodation facilities are not adequate. Tourists/pilgrims face an enormous shortage of accommodation during the peak tourists/pilgrims’ seasons. Similarly, institutional facilities for tourism development are yet to be provided. There are several panoramic landscapes situated in the highlands, which have lots of potential for tourism development. However, these areas are unexplored and unpublicized due to lagging institutional facilities.

I spent about 30 years of my early life in the remote part of the Uttarakhand Himalaya and have travelled the entire region several times. While growing up, I noticed beautiful landscape features, rich culture and customs, and poor socioeconomic conditions of the region. Besides, I have also experienced the occurrences of the atmospheric events from time to time, mainly during the monsoon season, which leads to severe catastrophes. The rich natural and cultural components of tourism development in the Uttarakhand Himalaya are not harnessed optimally and thus, it could not receive a progressive position in tourism development. Keeping all these constraints and prospects of tourism development in mind, I decided to write a book on overall aspects of sustainable tourism development in the Uttarakhand Himalaya. Although academic works were carried out on various tourism-related issues in the forms of research papers and articles, no concrete work with high impact on sustainable tourism development in the Uttarakhand Himalaya had been done. This study elaborates on the geographical and cultural components

of tourism development scientifically. The description related to tourism development in the Uttarakhand Himalaya is based on the data, collected from the secondary source—Uttarakhand Tourism Development Board, Dehradun. Also, I have been working on different aspects in the environment and development of the Himalaya for the last 30 years. In the tourism aspects, I have already contributed substantially. However, this work is unique because it incorporates all aspects of tourism development in geo-environmental and cultural perspectives. It is a noteworthy work, useful for all the stakeholders who are involved in tourism development such as the policy-makers, academicians, development agents, and the students at different levels. I acknowledge the support of Ms. Vishwani Sati, who edited all the chapters of the book thoroughly. Finally, I dedicate this work to my beloved parents—Late Smt. Saradi Devi Sati and Late Shri. Shiv Dutt Sati for their encouragement, support, and blessings before and after their death.

Chakrata, India
January 2020

Prof. Vishwambhar Prasad Sati, D.Litt.

About This Book

This book, titled *Sustainable Tourism Development in the Himalaya: Constraints and Prospects*, presents insights and a detailed description of tourism development in the Uttarakhand Himalaya. Here, ample geographical and cultural components of tourism support the basis for sustainable tourism development. The snow-clad mountain peaks, the alpine meadows, the highlands, the Middle Himalaya, the Shivalik ranges, the river valleys, and the Doon valley provide unique features and spectacular landscapes. Forest landscapes are panoramic. The rich culture and cultural heritage, supported by fairs and festivals, are among the major tourists/pilgrims' attractions. However, tourism support systems (carrying capacity)—transportation, accommodation, and institutions—are not sufficient. Therefore, tourism has not developed substantially although it shares about 50% of the GSDP.

This book is divided into 12 chapters—Introduction, Geographical and Cultural Components of Tourism, Types of Tourism and Tourist Places, Trends of Tourism, Major Tourism Circuits, Case Studies of Major Tourists/Pilgrims Routes, Infrastructure Facilities for Tourism Development, Homestay Tourism, Tourism Carrying Capacity, Sustainable Tourism Development: Constraints and Prospects, and Conclusions. The chapters are supported by substantial tables, figures, and models. It is unique, first of its kind, a detailed study of all the aspects of tourism development in the Uttarakhand Himalaya. The book is quite beneficial for all stakeholders—students, scholars, academicians, and policy-makers.

Contents

1	Introduction	1
1.1	Sustainable Tourism Development	3
1.2	Potential of Theme-Based Tourism	5
1.3	Principles of Sustainable Tourism	6
1.4	Impact of Tourism	9
1.5	Economic Impact of Tourism	10
1.6	Socio-cultural Impact of Tourism	10
1.7	Environmental Impact of Tourism	10
1.8	Scope of the Study	11
1.9	The Need and Purpose of the Study	11
1.10	Methodology	11
1.11	Organization of the Study	12
	References	14
2	Geographical Components of Tourism Development	17
2.1	Introduction	17
2.2	Geographical Components of Tourism	18
2.3	Spectacular Landscapes	19
2.4	River Topographies	23
2.5	Forest Landscapes	25
2.6	Feasible and Varied Climate	26
2.7	Rural Landscape	26
2.8	Conclusions	27
	References	27
3	Cultural Components of Tourism Development	29
3.1	Introduction	29
3.2	Cultural Components of Tourism	31
3.3	Pilgrimages to the Himalaya	31
3.4	Fairs and Festivals	33

3.5	Traditional Foods, Art, and Crafts	35
3.6	Conclusions	35
	References	36
4	Types of Tourism and Major Tourists/Pilgrims' Centres	37
4.1	Introduction	37
4.2	Types of Tourism and Major Tourists/Pilgrims' Centres	38
4.3	Natural Tourism	38
4.4	Cultural Tourism (Pilgrimages)	39
4.5	Park and Wildlife Tourism	40
4.6	Adventure Tourism	41
4.7	Major Trekking Routes of the Garhwal Himalaya	41
4.7.1	Kedartal Trek	41
4.7.2	Rupin Pass Trek	41
4.7.3	Kedarkantha Trek	41
4.7.4	Bali Pass Trek	42
4.7.5	Auden's Col Trek	42
4.7.6	Har Ki Dun Trek	42
4.7.7	Satopanth Lake Trek	42
4.7.8	The Valley of Flowers Trek	43
4.7.9	Brahmatal Trek	43
4.7.10	Kalindi Khal Trek	43
4.7.11	Roopkund Trek	44
4.8	Major Trekking Routes of the Kumaon Himalaya	44
4.8.1	Pindari Glacier Trek	44
4.8.2	Kafni Glacier Trek	44
4.8.3	Panchchuli Base Camp	44
4.8.4	Sunderdhunga Trek	45
4.8.5	Nanda Devi East Base Camp	45
4.8.6	Namik Glacier Trek	45
4.8.7	Sinla Pass Trekking	45
4.8.8	Chhota Kailash Trek	46
4.9	Mountaineering	46
4.9.1	Mountaineering to Nanda Devi	46
4.9.2	Mountaineering to Gaumukh	47
4.9.3	Mountaineering to Panchchuli	47
4.9.4	Mountaineering to Om Parvat	47
4.9.5	Mountaineering to Trishul	47
4.9.6	Mountaineering to Chaukhamba	47
4.9.7	Mountaineering to Bhagirathi Peak	48
4.10	River Rafting	48
4.11	River Rafting on the Ganga River	48
4.11.1	Rishikesh	48
4.11.2	Shivpuri	48

4.11.3	Byasi	48
4.11.4	Kodiyala	49
4.11.5	Devprayag	49
4.12	River Rafting on the Tons River	49
4.12.1	Mori	49
4.13	River Rafting in the Kumaon Himalaya	49
4.14	Skiing	50
4.15	Purpose of Tourism and Tourists/Pilgrims' Inflow	50
4.16	Conclusions	51
	References	51
5	The Trends of Tourism and Tourists/Pilgrims' Inflow	53
5.1	Introduction	53
5.2	Trends of Tourism and Tourists/Pilgrims' Inflow	55
5.3	Domestic Tourists/Pilgrims' Inflow	55
5.4	Foreign Tourists/Pilgrims' Inflow	56
5.5	Domestic Pilgrims' Inflow in the Highland Pilgrimages	56
5.6	Foreign Pilgrims' Inflow in the Highland Pilgrimages	57
5.7	Domestic Tourists' Inflow in the Major Natural Locales/Administrative Towns	58
5.8	Foreign Tourists' Inflow in the Major Natural Locales/Administrative Towns	58
5.9	Domestic Pilgrims' Inflow in the River Valleys Pilgrimages	59
5.10	Foreign Pilgrims' Inflow in the River Valleys Pilgrimages	59
5.11	Analysis of Tourists/Pilgrims' Inflow Using Descriptive Statistics	60
5.12	Discussion	64
5.13	Conclusions	65
	References	66
6	Major Tourists/Pilgrims' Circuits	67
6.1	Introduction	67
6.2	Major Tourists/Pilgrims' Circuits	68
6.3	Uttarkashi-Yamunotri-Harsil-Gangotri Circuit	69
6.4	Dehradun-Mussoorie-Chakrata-Rishikesh-Haridwar Circuit	70
6.5	Panch Badri Circuit	72
6.6	Panch Kedar Circuit	73
6.7	Devprayag-Kunjapuri-Chandrabadni-Surkanda-New Tehri Circuit	75
6.8	Chilla-Kotdwar-Lansdowne-Pauri Circuit	75
6.9	Ranikhet-Almora-Jageshwar-Kausani-Baijnath-Bageshwar Circuit	76

6.10	Mukteshwar-Nainital-Bhimtal-CNP-Rudrapur Circuit	78
6.11	Champawat-Pithoragarh-Dharchula-Munsiyari Circuit	79
6.12	Domestic Tourists/Pilgrims' Inflow in Tourism Circuits	79
6.13	Foreign Tourists/Pilgrims' Inflow in Tourism Circuits	80
6.14	Conclusions	82
	References	83
7	Case Studies of Important Tourism Routes	85
7.1	Introduction	85
7.2	Karnprayag-Gwaldam-Almora-Nainital-Ranikhet-Gairsain Route	86
7.3	Kalsi-Chakrata-Tiuni-Hanol-Mori-Purola Route	90
7.4	Rudraprayag-Kedarnath-Madhyamaheshwar-Tungnath-Rudranath-Kalpeshwar Route	91
7.5	Conclusions	93
	References	94
8	Infrastructural Facilities for Tourism Development	95
8.1	Introduction	95
8.2	Transportation Facilities	97
8.3	Airways	97
8.4	Railways	98
8.5	Roadways	99
8.6	Major National Highways	100
8.7	All-Weather Roads	101
8.8	Accommodation	102
8.9	Accommodation Units in the Major Natural and Cultural Locales	102
8.10	Classification of Accommodation Units	103
8.11	Institutional Facilities	105
8.12	Medical Facilities	105
8.13	Educational Facilities	106
8.14	Conclusions	106
	References	107
9	A Sustainable Homestay Tourism and Its Prospects	109
9.1	Introduction	109
9.2	Homestay Tourism Policy in Uttarakhand	111
9.3	District-Wise Registered Units and Income from Homestay Tourism in Urban Areas	112
9.4	District-Wise Registered Units and Income from Homestay Tourism in Rural Areas	113
9.5	Statistical Analysis of Homestay Tourism in Urban and Rural Areas	115
9.6	Increasing Homestay Facilities	116

9.7	Income Obtained from Homestay Tourism	116
9.7.1	A Sustainable Model of Homestay Tourism	117
9.8	The Impact of Homestay Tourism	117
9.9	Discussion	119
9.10	Conclusions	120
	References	120
10	Tourism Carrying Capacity and Destination Development	123
10.1	Introduction	123
10.2	TCC of Selected Tourism Destinations	125
10.3	Mussoorie	125
10.4	Gwladam	128
10.5	Chakrata	128
10.6	Chopta	129
10.7	Chilla	129
10.8	Destination Development	130
10.9	Conclusions	130
	References	130
11	Sustainable Tourism Development: Constraints and Prospects	133
11.1	Introduction	133
11.2	Constraints of Sustainable Tourism	134
11.3	Prospects of Sustainable Tourism Development	136
11.4	SWOC Analysis	137
11.5	Conclusion	139
	References	139
12	Conclusions	141
12.1	Recommendations	143
	References	147
Index		149

About the Author



Vishwambhar Prasad Sati (b. 1966), Doctor of Letters (2011), and Ph.D. (1992), is a Senior Professor of Geography and Resource Management, Mizoram University, Aizawl, India. He, having a teaching and research experience of above 30 years, has devoted almost all his career years in the development of mountain geography/studies. He has served many national and international educational and scientific institutions in various capacities, such as Associate Professor at ‘Eritrea Institute of Technology’ Asmara, Eritrea, NE Africa (2005–2007) and Professor in ‘Madhya Pradesh Higher Education’ (1994–2005 and 2007–2012). He has been a CAS-PIFI Fellow (2016), Visiting Scholar of CAS (2014), Visiting Scholar of TWAS (2010), worked at IMHE, Chengdu, China; Visiting Scholar of INSA (1012), General Fellow of ICSSR (2008–2009), worked at HNBGU, Srinagar Garhwal, an Associate at IIAS, Shimla (2008) and Research Fellow of GBPIHED (1993). He has completed 14 research projects; composed 28 text and reference books; published 110 research papers in journals of international and national repute and many articles in magazines and newspapers, presented research papers in 36 countries and all over India, received fellowships from 38 research organizations to participate in various international events, supervised Ph.D. thesis, organized conferences, chaired many academic sessions, served as a Resource Person in several national and international conferences; and is currently serving many international professional bodies as a member, editor, and reviewer.

Acronyms

ABS	Asan Bird Sanctuary
BJP	Bharatiya Janata Party
BRO	Border Road Organization
BWS	Binsar Wildlife Sanctuary
CECC	Cultural and Economic Carrying Capacity
CNP	Corbett National Park
CWS	Chilla Wildlife Sanctuary
DDUGAHS	Deendayal Upadhyaya Griha Awaas Home Stay
DoES	Directorate of Economics and Statistics
ECC	Environmental Carrying Capacity
EPI	Environmental Performance Index
ESI	Environmental Sustainability Index
GBPIHED	Govind Ballabh Pant Institute of Himalayan Environment and Development
GDP	Gross Domestic Product
GNP	Gangotri National Park
GMVN	Garhwal Mandal Vikas Nigam
GWS	Govind Wildlife Sanctuary
ICC	Institutional Carrying Capacity
INR	Indian Rupees
IT	Information Technology
KMVN	Kumaon Mandal Vikas Nigam
MoT	Ministry of Tourism
NDBR	Nanda Devi Biosphere Reserve
NDRJY	Nanda Devi Raj Jat <i>Yatra</i>
NH	National Highway
NHAI	National Highway Authority of India
NHIDCL	National Highway and Infrastructural Development Corporation Limited

PRASHAD	Pilgrimage Rejuvenation and Spiritual, Heritage Augmentation Drive
PWD	Public Work Department
RJNP	Rajaji National Park
SGDP	State Gross Domestic Products
SWOC	Strengths, Weaknesses, Opportunities, and Challenges
TC	Tourism Circuit
TCC	Tourism Carrying Capacity
UNEP	United Nations Environment Programme
UNESCO	United Nations Educational, Scientific and Cultural Organization
UNSDGs	United National Sustainable Development Goals
USD	United State Dollar
USN	Udham Singh Nagar
UTDB	Uttarakhand Tourism Development Board
VFNP	Valley of Flowers National Park
WTO	World Tourism Organization