

BIBLIOGRAPHY ON THE FAUNA AND MICROFLORA



OF THE INDIAN HIMALAYAN REGION



NMSHE
Climate Change Programme (CCP)
Department of Science & Technology
Government of India



भारतीय वन्यजीव संस्थान
Wildlife Institute of India





Bibliography on the Fauna and Microflora of the Indian Himalayan Region

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Chapter photos

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ENVIS Center**Wildlife and Protected Areas****ENVIS Centre Team**

Project Leader & Coordinator

V.B. Mathur

Project Co-coordinator

S.A. Hussain

Programme Officer

Anant Pande

Information Officer

Jyoti Prasad Nautiyal

Advisory Committee

Dr. V.B. Mathur, Director

Dr. S.A. Hussain, Scientist G

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Sh. Anant Pande, Programme Officer

Sh. Jyoti Prasad Nautiyal, Information Officer

Project Leader &
Coordinator

Project
Co-Coordinator

Member

Member

Member

Member

Member

Member

Member

Member

Editor

S. Sathyakumar

Editorial support

WII NMSHE Project Team, Anant Pande

Editorial Processing

Jyoti Prasad Nautiyal

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ENVIS

The Environmental Information System (ENVIS) Centre at the Wildlife Institute of India, set up in September 1997, is part of the ENVIS setup of the Ministry of Environment, Forest and Climate Change, Government of India. It deals with general matters concerning 'wildlife' and specifically those related to 'Protected Area.' It's objectives are to:

- Build up information storage: retrieval and dissemination capabilities in subject areas related to wildlife science.
- Establish linkages with all information sources in wildlife conservation and management in the country and abroad for increasing the information content.
- Respond to user queries by supplying substantive information in the form of published reports, documents, extracts, research papers and other unpublished and analyzed information as far as possible.
- Maintain links with other ENVIS Centers with the ultimate objectives of identification of data and knowledge gaps in specified subject areas and take action towards filling these gaps Publish bulletins on the thematic areas.
- Publish bulletins on the thematic focus areas.



CONTENTS

Director's Note	iv
Foreword	v
Chapter 1 Introduction to the Bibliography on the Fauna and Microflora of the Indian Himalayan Region	1-8
<i>Sunita Agarwal, Shashi Uniyal, Ummed Singh Chauhan and Sambandam Sathyakumar</i>	
Chapter 2 Mammals of the Indian Himalayan Region	9-52
<i>Ranjana Pal, Bhavya Iyer, Shashank Arya, Shagun Thakur, Krishnendu Mondal, Tapajit Bhattacharya and Sambandam Sathyakumar</i>	
Chapter 3 Birds of the Indian Himalayan Region	53-127
<i>Sohini Chaudhuri, Bhavya Iyer, Kamalika Bhattacharya, Tapajit Bhattacharya, Krishnamurthy Ramesh, Pratap Singh and Sambandam Sathyakumar</i>	
Chapter 4 Herpetofauna of the Indian Himalayan Region	128-157
<i>Naitik G. Patel and Abhijit Das</i>	
Chapter 5 Fishes of the Indian Himalayan Region	158-212
<i>Aashna Sharma, Vineet Kumar Dubey, Jeyaraj Antony Johnson and Kuppusamy Sivakumar</i>	
Chapter 6 Butterflies and Odonates of the Indian Himalayan Region	213-244
<i>Manish Bhardwaj, Shuvendu Das, Pooja Kala and Virendra Prasad Uniyal</i>	
Chapter 7 Soil Nematodes of the Indian Himalayan Region	245-262
<i>Priyanka Kashyap, Manish Bhardwaj and Virendra Prasad Uniyal</i>	
Chapter 8 Microflora (lichens, fungi and bacteria) of the Indian Himalayan Region	263-319
<i>Pamela Bhattacharya, Sonam Priyadarshani, Devendra Kumar, Ishwari Datt Rai, Gautam Talukdar and Gopal Singh Rawat</i>	

Director's Note

There is an increasing demand for scientific information on the state of environment particularly biodiversity in different regions of the world. While information is scanty for poorly studied regions, there is substantial information for some regions but most of it is not readily available as either it is widely scattered or largely unpublished. In such situations, it is very difficult for a user to find the required information on a given subject or topic in the absence of proper documentation or database. In today's world, quick and easy access to correct information is gaining momentum for which various databases are being maintained.

The Himalayan region has been less studied when compared to many other mountain ecosystems in the world. With the emerging threat of climate change and its impacts on the ecology and environment of the Himalaya, there have been efforts in recent times to gather scientific information on various aspects, most importantly on biodiversity. Much of the climate change investigations around the world have revealed that there are shifts in distribution range of species or changes in life history strategies and/or behaviour. While baseline status for species/taxa are being established through surveys and studies in the recent past, consequences of climate change impacts on species could be better understood from historical information that presently lies scattered in various journals, books, expedition reports and gazetteers. In this context, bibliographical databases are of immense value.

Under the National Mission for Sustaining the Himalayan Ecosystem (NMSHE), the Wildlife Institute of India has been assigned the responsibilities for operating the Task Force on Fauna and Micro flora by the Department of Science and Technology. The project personnel of WII NMSHE team under the supervision of concerned faculty have carried out the mammoth task of conducting literature survey on faunal and micro floral groups/taxa and have prepared the state of knowledge report, based on over 4,500 references. I appreciate the efforts of the WII Library and Documentation Centre who had compiled this bibliography and the searchable database.

This ENVIS bulletin on the 'Bibliography of the Fauna and Micro Flora of the Indian Himalayan Region' will be of immense use to students, researchers, scientists, wildlife managers, naturalists, conservationists and policy makers, who are interested in the conservation of biodiversity in the Indian Himalayan Region.

19 September, 2016
Dehradun

(V.B. Mathur)
Director, WII
& Project Leader, ENVIS Centre, WII



Foreword

I am delighted to write these words for this important and very useful publication for all those who have interest in the wildlife of the Himalaya and in the Himalaya itself.

The Himalayan mountain range along with its exceptionally beautiful wilderness areas, encompasses wildlife habitats that are home to a wide array of floral and faunal species. I have been immensely interested in learning about the mountain fauna and their conservation for over six decades now. Till the 1970s, information on the wildlife of the Himalaya were confined to a few books, expedition reports and gazetteers, but a significant amount of information were confined to out of print personal records or diaries maintained by hunters, naturalists, explorers, and mountaineers and remained largely inaccessible. By the late 1970s, some information on species accounts, distribution, status, natural history information and field guides on the mammals, birds, flowers, trees and insects, were available from the pioneering works of George Schaller, S.H.Prater, Salim Ali, and Wynter Blyth, and Records of the Zoological and Botanical Surveys of India.

Since mid 1980s, research on the fauna of the Indian Himalayan Region had grown steadily, leading to a wealth of information that has been generated from different regions of the Himalaya. Most importantly, research on herpetofauna, fish and invertebrates have steadily grown in the last few decades. This ENVIS Bulletin on the bibliography on the fauna and micro flora of the Indian Himalayan Region contains over 4,500 references across eight faunal/micro-floral taxa/groups. Apart from this hard copy publication, the Wildlife Institute of India has brought out a CD with a specially designed database, for this bibliography.

I am sure that this publication that includes compilation of references of pioneering works as early as 1785, would now be within reach of every user because of this bibliography. I congratulate the Wildlife Institute of India for bringing out this publication and hope that this would encourage young biologists and field managers to document and publish their significant observations on the wildlife of the Himalaya and what is even more important, to inspire future generations to trek and travel in this magnificent terrain, which for its biotic richness has no parallel in the world.

16 September, 2016
New Delhi

(Dr. M. K. Ranjitsinh)
Former Additional Secretary, MoEF, New Delhi
& Director of Wildlife Preservation, India



01

Introduction to the Bibliography on the Fauna and Microflora of the Indian Himalayan Region

Introduction to the Bibliography on the Fauna and Microflora of the Indian Himalayan Region

Sunita Agarwal, Shashi Uniyal, Ummed Singh Chauhan, and Sambandam Sathyakumar

Introduction

In recent years, there has been a demand for information on all spheres of life and such demand is growing exponentially. The likely impacts on global environment and biodiversity due to climate change and anthropogenic pressures is one such field for which information is required to plan for the future, most importantly for decision making to balance development and conservation priorities. It is often very difficult to find the required information or literature on a particular topic in the absence of proper documentation particularly when the information is either scarce or widely scattered. Further, the literature doubling is taking place at an unabated pace, in certain fields and such growth is less than 6 to 8 years.

The effects of climate change are pronounced in places such as the Himalaya, where the network of snow-clad mountains, ice-peaks, high intensity drainage and precipitation characterises the bio-social landscape. Evidence suggests that responses of species to impacts of climate change are inter-alia manifested in changes in phenology, earlier onset of spring, migration, and lengthening of growing seasons. Similarly, humans are affected by declines in health, increased population movement, unforeseen changes in food productivity, obstacles to development, and progressive environmental damage. Realizing the need for developing science based action plans to address both the existing as well as emerging threats of climate change in the fragile mountain ecosystems of the Indian Himalayan Region (IHR), the National Mission for Sustaining the Himalayan Ecosystem (NMSHE) has been conceived and is expected to offer practical adaptation strategies based on inputs from various reputed Institutions. The Wildlife Institute of India (WII) has been assigned the responsibilities for operating the Task Force on Fauna and Microflora by the Department of Science and Technology, Government of India. The goal of this project is to: Develop strategies to mitigate climate change effects on wild animal species and ecosystems in the IHR. The thematic areas identified under the research project area (A) Terrestrial System, (B) Aquatic System, (C) Human Ecology, and (D) Spatial Ecology, and include assessments of: (a) animal species/communities diversity, distribution, abundance (b) wildlife habitats, ecosystems, and ecosystem services; (c) anthropogenic and climate change impacts on wildlife and ecosystems through scenario building and visualization; (d) vulnerability of species / habitats to climate change; and prioritization of species/taxa and sites for monitoring.

When compared to other mountain systems of the world, the amount of literature or documented knowledge on the biodiversity of the Himalaya is not much. While baseline status for species/taxa are being established through surveys and studies in the recent past, consequences of climate change impacts on species could be better understood from historical information that presently lies scattered in various journals, books, expedition reports and gazetteers. In such a situation, even an expert will be able to access and acquaint with only a small fraction of available literature. To overcome this major constraint, the subject specialists and information scientists were able to find means of 'bibliographies' and 'databases' respectively.

Keeping the above in view, this 'Bibliography on Fauna and Microflora of Indian Himalayan region' has been compiled as part of this project. These references have been categorised based on the scope of the articles and placed them under ten main taxa/group viz., Mammals, Birds, Herpetofauna, Fish, Butterflies, Odonates, Soil Nematodes, Soil Bacteria, Soil fungi and Lichen.

WINISIS software was used for compilation of this bibliography and this includes publications from 1775 to 2016. However, majority of the references are of the period after 1900. The geographical coverage of the database as given in the title is restricted to the IHR i.e., Jammu and Kashmir, Himachal Pradesh, Uttarakhand, Sikkim, Arunachal Pradesh and West Bengal (northern hill districts only). The computerized database contains 4,674 references. Each reference is marked with serial number for retrieval purpose. For quick retrieval of information, author and publication year index are appended for each taxa.

Bibliometric Analyses

The bibliographic output was subjected to the following bibliometric analysis and order to understand the chronological development, Geographical area (State wise) distribution, Subject wise distribution, collaborative pattern of authorship and number of research workers in particular taxa.

Of the total 4,674 references, 4,031 pertain to fauna while the remaining 643 deal with microflora. Maximum numbers of publications are on birds followed by fishes and mammals.

Table 1.1 Taxa-wise distribution of Literature on the fauna and micro flora of the Indian Himalayan Region

S.No.	Taxa	Number of References
	A. Fauna	
1	Mammal	639
2	Bird	1,567
3	Herpetofauna	394
4	Fish	812
5	Butterflies	276
6	Odonates	135
7	Soil nematodes	208
	B. Micro Flora	
1	Soil Bacteria	218
2	Lichen	310
3	Soil Fungi	115
	Total	643
	Total (A+B)	4,674

The trend in Chronological development of literature has been shown by an interval of ten years' period in the following Figure 1.1. The numbers of publications before 1900 are 203 only. This Table also reveals that 1,127 references has been published from 2001-2010.

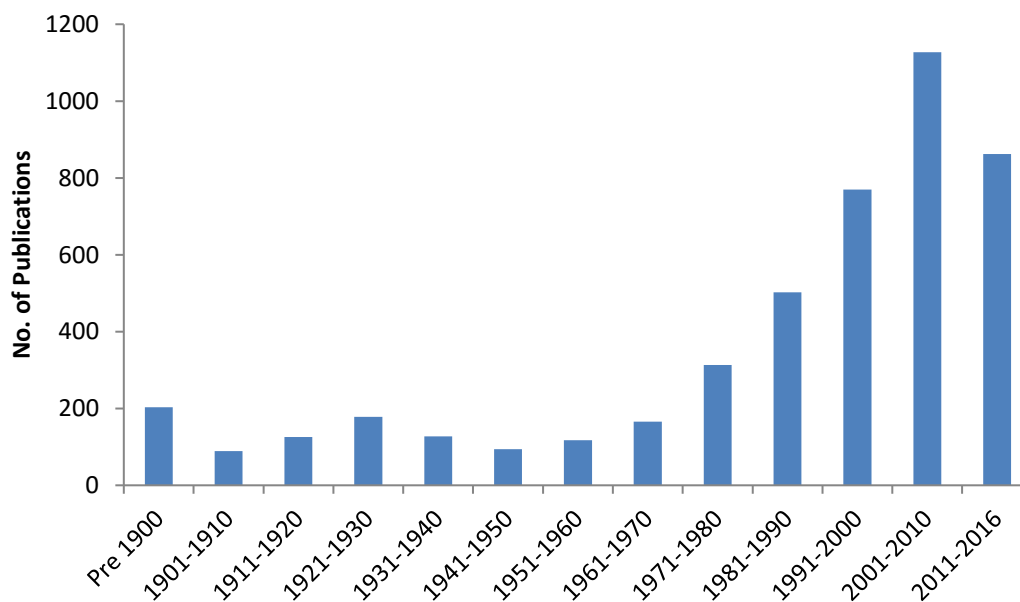


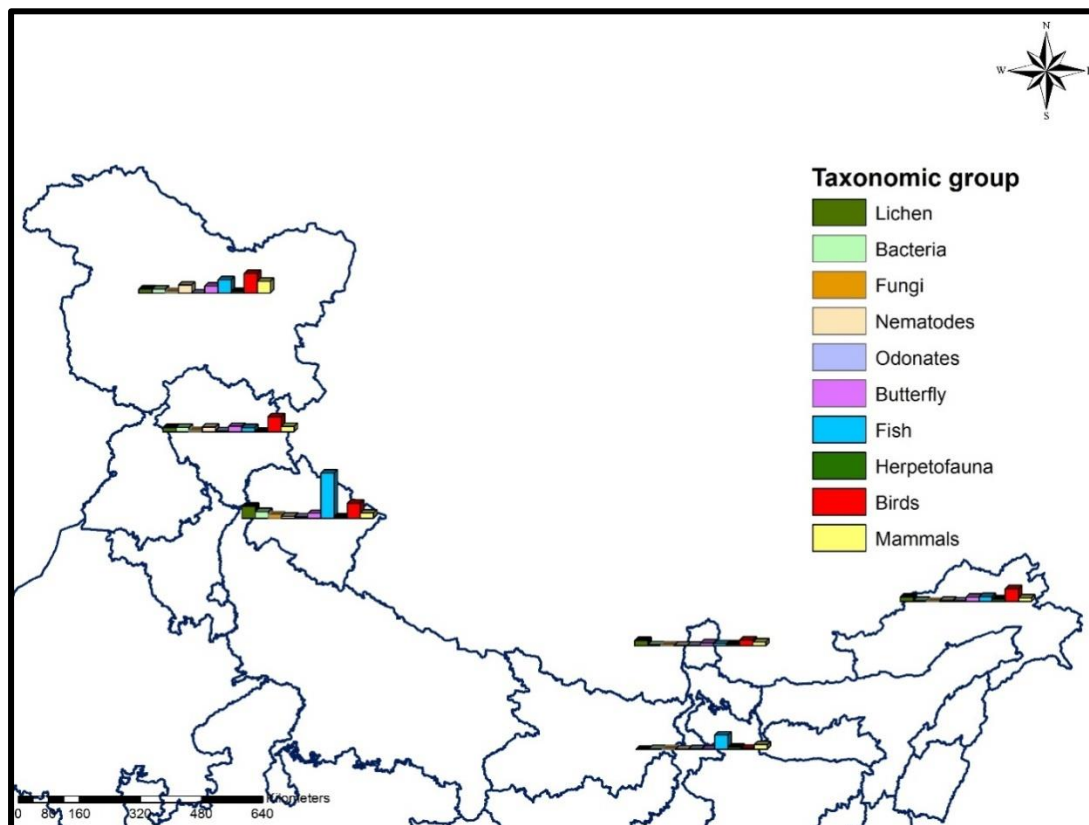
Figure 1.1 Temporal distribution of Literature on the fauna and micro flora of the Indian Himalayan Region

The State wise distribution of literature shows that maximum number of studies have been carried out in Uttarakhand followed by Jammu and Kashmir. About 1,224 numbers of publications are in general to the Himalayan region.

Table 1.2 State-wise distribution of Literature on the fauna and micro flora of the Indian Himalayan Region

State	Lichen	Bacteria	Fungi	Nematodes	Odonates	Butterfly	Fish	Herpetofauna	Birds	Mammals	Total
Jammu and Kashmir	54	50	19	103	1	90	172	22	252	151	914
Himachal Pradesh	54	58	21	61	12	72	56	5	193	70	602
Uttarakhand	156	86	45	26	19	64	582	19	194	68	1259
Sikkim	65	12	8	5	3	35	25	23	73	46	295
Arunachal Pradesh	59	12	1	14	7	54	63	32	164	44	450
West Bengal	0	7	3	0	5	0	184	29	10	60	298
General	0	0	18	0	88	0	0	249	669	200	1224

Figure 1.2 State-wise distribution of Literature on the fauna and micro flora of the Indian Himalayan Region



We have categorized the bibliography based on the scope of the article and placed them under 7 broad subject headings (Ecology, Distribution, Taxonomy, Molecular biology, Climate change, Conservation and Others). Among these Subjects Ecology dominates the database.

Table 1.3 Subject-wise distribution of Literature on the fauna and micro flora of the Indian Himalayan Region

Subject	Lichen	Bacteria	Fungi	Nematodes	Odonates	Butterfly	Fish	Herpetofauna	Birds	Mammals	Total
Ecology	19	27	62	141	7	151	314	79	581	256	1637
Distribution	139	114	0	0	0	351	206	182	417	74	1483
Taxonomy	70	97	43	75	128	263	215	157	209	46	1303
Molecular biology	3	19	0	37	0	0	34	5	8	14	120
Climate change	16	0	0	1	0	2	10	0	3	6	38
Conservation	0	3	0	0	4	15	85	11	174	97	389
Others	65	0	10	12	0	0	218	97	1050	146	1598

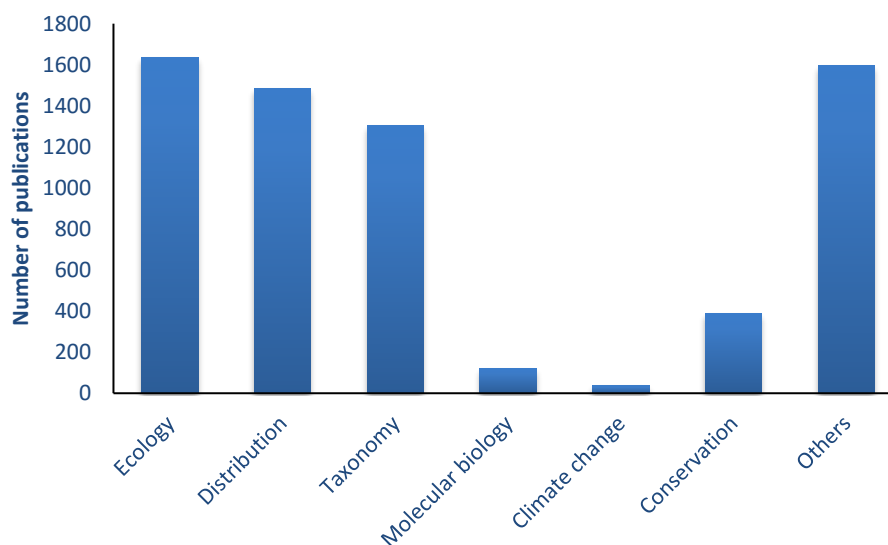


Figure 1.3 Subject-wise distribution of Literature on the fauna and micro flora of the Indian Himalayan Region

Table 1.4 shows the number of authors in the publications on each taxa. About four authors were involved in each publication on Bacteria.

Table 1.4 Number of authors in the publications on the fauna and micro flora of the Indian Himalayan Region

S.No.	Taxa	No. of References	Total no. of Authors	Authors/publications
1	Bacteria	218	859	3.9
2	Birds	1,567	2,297	1.5
3	Butterfly	276	455	1.6
4	Fish	812	1,740	2.1
5	Herpetofauna	394	742	1.9
6	Lichen	310	807	2.6
7	Mammals	639	1,411	2.2
8	Nematodes	208	422	2.0
9	Odonates	135	186	1.4
10	Soil fungi	115	333	2.9
Total		4,674	9,252	2.0

The authorship ranged from single author to 25 authors for a single publication. Of the 4,674 references, only 2,216 were published in multiple authorships. It is observed that the overall percentage of single authors and multiple authors were 52.6% and 47.4% respectively. While the percentage of single authors paper were maximum (73.9%) for birds, the percentage of multiple authors were high for bacteria (93.6%).

Table 1.5 Authorship patterns in the publications on the fauna and micro flora of the Indian Himalayan Region

S.No.	Taxa	Single authorship (%)	Multiple authorship (%)	Total
1	Bacteria	14 (6.4)	204 (93.6)	218
2	Birds	1,158 (73.9)	409 (26.1)	1,567
3	Butterfly	166 (60.1)	110 (39.9)	276
4	Fish	353 (43.5)	459 (56.5)	812
5	Herpetofauna	226 (57.4)	168 (42.6)	394
6	Lichen	64 (20.6)	246 (79.4)	310
7	Mammals	309 (48.4)	330 (51.6)	639
8	Nematodes	64 (30.8)	144 (69.2)	208
9	Odonates	93 (68.9)	42 (31.1)	135
10	Soil fungi	11 (9.6)	104 (90.4)	115
Total		2,458 (52.6)	2,216(47.4)	4,674

For the convenience of the user, this bibliography is also available in database form at the Wildlife Institute of India, Library and Documentation Centre. It is hoped that providing information both in traditional printed form as well as through machine

readable database will be very useful and act as a ready reference to both professional and amateur wildlife ecologists and protected area managers, interested in the IHR. We would also like to add that this database is not complete. While all possible efforts have been made to cite the references as accurately as possible, it is probable that some mistakes may have remained, largely owing to the compilation of the majority of references from secondary sources. We would be grateful if such mistakes are brought to our notice for correction and continuous updation of this database.

This bibliography is also distributed in machine readable form (CD) along with user friendly search engine. We hope that availability of this bibliography in Print/CD form will immensely help students, teachers, biologists, scientists, wildlife managers, naturalists, conservationists, policy makers and other users.

Acknowledgements

This study is a component of the project 'National Mission for Sustaining the Himalayan Ecosystem' (NMSHE) supported by the Department of Science & Technology (DST) (Grant no: DST/SPLICE/CCP/NMSHE/TF-2/WII/2014[G] dated 26.08.2014). Special mentions are required for the facilities provided by the Director of CSIR-National Botanical Research Institute, Lucknow. We thank Dr. D.K. Upreti (Chief Scientist, Lichenology Laboratory, CSIR-NBRI, Lucknow) for providing information about their laboratories and copies of reprints. We acknowledge the contribution of Dr. Anjum N. Rizvi of Zoological Survey of India to prepare the bibliography on soil nematodes of the Indian Himalayan Region. We thankfully acknowledge the contribution of Dr. Punyasloke Bhadury of Indian Institute of Science, Education and Research, Kolkata to prepare the bibliography of soil bacteria of the Indian Himalayan Region. In Wildlife Institute of India, contributions of Dr. Samrat Mondol (Animal Ecology and Conservation Biology) in microflora bibliography preparation is also acknowledged. We thank the entire team of WII NMSHE Project who had painstakingly conducted literature review and compiled the bibliography. Apart from the authors, other NMSHE team members namely Malvika Pandey, Neha Aswal and Project Interns contributed substantially for this compilation.



02

Mammals of the Indian Himalayan Region



Bibliography on the Mammals of the Indian Himalayan Region

Ranjana Pal, Bhavya Iyer, Shashank Arya, Shagun Thakur, Krishnendu Mondal, Tapajit Bhattacharya and Sambandam Sathyakumar

Introduction

Of the 428 mammalian species reported across India (Sharma et al., 2015), about 291 species (39 families, 13 orders) have been recorded from the Indian Himalayan Region (IHR). A further breakdown of the list reveals that 40 of these species are known from the Indian trans-Himalaya; 77 from the north-west Himalaya, 102 from the western Himalaya, and 172 from the eastern Himalaya (Sharma et al., 2015). Notable mammalian species of the region, and ones of conservation concern include the Kashmir markhor (*Capra falconeri*), Asiatic ibex (*Capra sibirica*), Kashmir stag or hangul (*Cervus elaphus hanglu*), Tibetan antelope (*Pantholops hodgsonii*), Himalayan brown bear (*Ursus arctos isabellinus*), and Eurasian lynx (*Lynx lynx*) from the western Himalaya. The Namdapha flying squirrel (*Biswamoyopterus biswasi*), slow loris (*Nycticebus bengalensis*), hoolock gibbon (*Bunopithecus hoolock*), Arunachal macaque (*Macaca munzala*), black musk deer (*Moschus fuscus*), leaf deer (*Muntiacus putaoensis*), takin (*Budercos taxicolor*), red panda (*Ailurus fulgens*), sun bear (*Helarctos malayanus*), clouded leopard (*Neofelis nebulosa*), and golden cat (*Catopuma temmincki*) occur in the eastern Himalaya (Macdonald, 2001, Sathyakumar and Bashir 2010, Choudhury 2015).

The earliest publication on mammals of the IHR dates back to 1841. Information on mammals of the northwestern and western Himalaya are higher when compared to the eastern Himalaya. This included detailed investigations or doctoral studies and short-term studies on species ecology and behavior and the remaining were largely status surveys (Agarwal et al. 1998, Sathyakumar and Bhatnagar 2002, Sathyakumar and Bashir 2010). In the eastern Himalaya status surveys and short term studies on mammals have been carried out (Shah, 1994; Kakati, 1996; Datta, 2003; Datta et. al. 2008a, 2008b; Kumar et. al., 2003; Mishra et. al. 2006, Choudhury 2015).

Methods

Online research databases were searched using the search terms “Himalaya” and name of the six Himalayan States such as “Jammu and Kashmir”, “Himachal Pradesh”, “Uttarakhand”, “Sikkim”, “Arunachal Pradesh” and “West Bengal”. All the information was entered in a Microsoft Excel Spreadsheet and arranged alphabetically to remove any duplication. All the analyses were carried out in Microsoft Excel to determine the trend of research over the decades, the emphasised areas and the knowledge gap.

Results and Discussion

The bibliography on mammalian fauna of the IHR includes 639 unique entries covering a period of nearly two centuries, starting from 1841 to 2016. We categorized the articles in

three distinct ways: A) The first category was based on the regions of six Himalayan States (Jammu and Kashmir, Himachal Pradesh, Uttarakhand, Sikkim, West Bengal-Darjeeling and Jalpaiguri district and Arunachal Pradesh) where the studies were carried out. B) The second category was based on their publication dates, in which the studies were grouped in 10-year intervals from 1840 to 2016; this enabled us to see the research trends and patterns. C) The third category was based on the subject focus of the research; the publications were categorized based on the broad subjects (ecology and behaviour, taxonomy, evolution, conservation and climate change impact) at which the research was carried out. Articles were also categorized based on the mammal groups which were the object of research in the various publications, and this was compared with the subjects of each paper to better understand past research trends, and predict future ones.

Geographical Distribution of Publications:

Publications have been categorized based on the state or states of focus. The most amount of research has been carried out in Jammu and Kashmir, especially in the Ladakh region (Table 2.1). This is followed by West Bengal (northern hill districts), Uttarakhand, Himachal Pradesh, Arunachal Pradesh and Sikkim in that order. Other papers were more broadly focused and could not be classified.

Table 2.1 State wise distribution of publications

States	Number of Publications
Jammu and Kashmir	151
Himachal Pradesh	70
Uttarakhand	68
Sikkim	46
West Bengal	60
Arunachal Pradesh	44
Others	200

Temporal Pattern of Publications:

Publications that were accessed date from the year 1841 to 2016. The most number of publications so far was in the 2001-2010 decade, with 193 publications, though it is likely that the 2011-2020 period will exceed this number by the end of the decade, as there are already 146 publications in the five-year period from 2011 to 2016 (Fig. 2.1). A glance at the publications since 1841 shows that most of the papers in the 19th century (16 publications) were general descriptions of fauna and flora of an area, or notes on new species or taxonomic families. In the first half of the 20th century (1901-1950), out of 30 publications, a majority are about geographic distributions or on the fauna of different areas. About a third of these describe new species. The second half of the 20th century shows a marked increase in research (207 publications) which begin to broaden in scope from just geography and

taxonomy to behaviour, ecology, conservation, and evolution. Finally, the 21st century has the greatest amount of literature published and available on the IHR so far, with 341 publications. Papers on conservation surpass the number of papers on geography and distribution. There are few papers on taxonomy, and instead many more on ecology and behaviour, and a few on climate change.

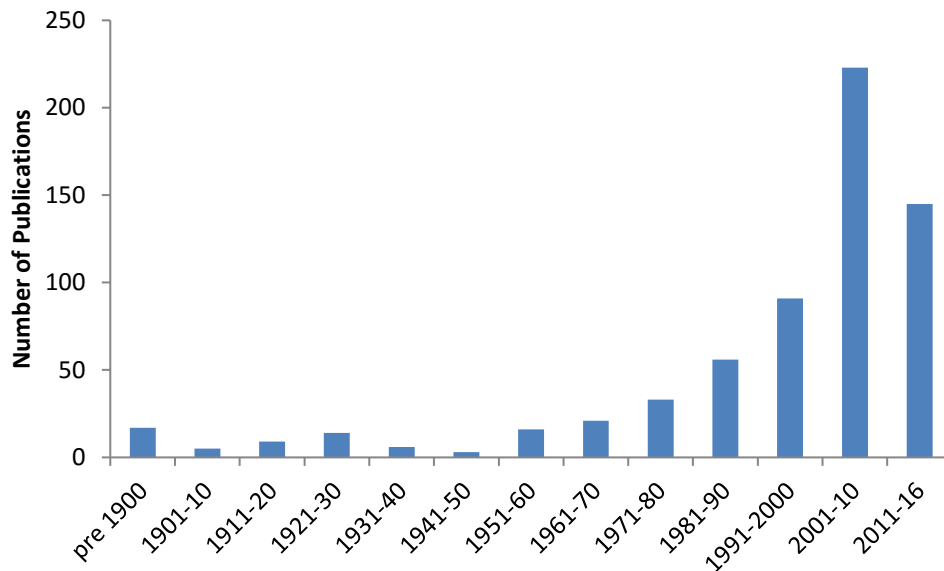


Figure 2.1 Temporal pattern of publications on mammalian fauna of the Indian Himalayan Region

Publications by subject

Publications have been classified based on subject focus – Ecology, Behaviour, Geography, Taxonomy, Genetics and Evolution, Conservation, Climate Change, and General. Some of these topics are further sub-divided. The highest numbers of publications were on ecology (232) – feeding, habitat, and other (which includes status surveys, population estimation, community and general ecology) (Fig. 2.2). Conservation of species with 97 publications is the second most studied topic. A majority of these are on the status and conservation of various endangered species such as the snow Leopard (*Panthera uncia*), Tibetan kiang (*Equus kiang*), Kashmir stag (*Cervus elaphus hanglu*), Tibetan argali (*Ovis ammon hodgsoni*) and others. The remaining publications pertain to human-wildlife conflict and its mitigation which included Asiatic black bear (*Ursus thibetanus*), common leopard (*Panthera pardus*), snow leopard (*Panthera uncia*), Tibetan wolf (*Canis lupus chanko*), and rhesus macaque (*Macaca mulatta*). There were less number of publications on genetics and evolution (14) and climate change (6). Many papers also dealt with geography (74) either on range of a species or the general fauna of a region.

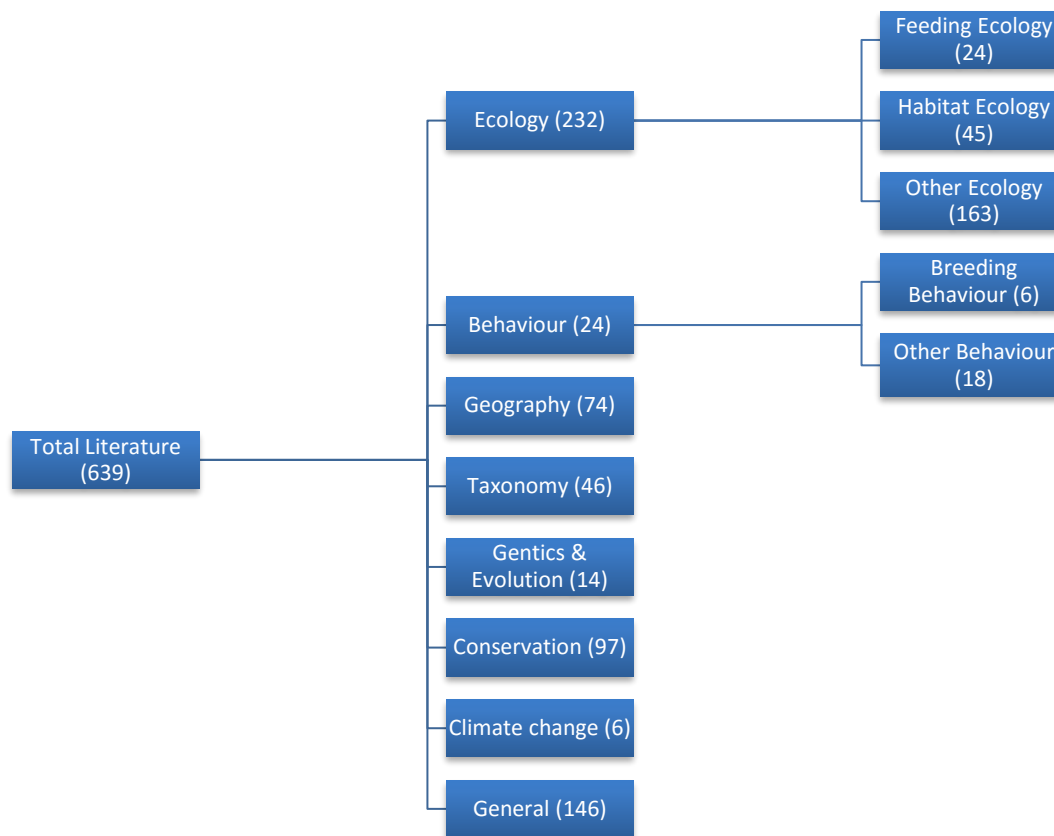


Figure 2.2 Number of publications on mammals of the Indian Himalayan Region in different subject categories

Research Gaps and Future Priorities

Research on mammals of the IHR has in the past, focused mostly on a few specific topics – abundance, occupancy, range use, distribution, and conservation status. Studies on human-wildlife interactions – especially negative interactions, or conflict – have increased with time, as have these interactions. However, few papers address mitigation of this conflict, but speak of it only as a reason for the decline of a particular species, and the need for its conservation (Table 2.2).

In the future, research on mitigating such conflict will be of great importance, as increasing human population puts further pressure on wildlife and their habitats. Few studies have been carried out on evolution, and use of molecular phylogeny will further research on evolution as well as taxonomy. Studies into ecological aspects such as behaviour, inter-species dynamics (or community ecology on a macro level) and adaptations of wildlife – especially megafauna – to human disturbance will be of increasing importance, and will address several research gaps.

Climate change has been severely understudied in mammal species, perhaps because they do not make good indicator species to study the phenomenon. However, research can be carried out to study not just the effects of climate change on wildlife, but also the

adaptations and either species diversification or extinction caused by climate change. Hence, going forward, research on species behaviour will be of great importance as they will be a part of studies on a variety of topics, from climate change to conservation as well as ecology.

Table 2.2 The key past and future research priorities based on the current assessment

Subject Area	Key past research priorities	Research Gap and future priorities
Ecology and Behaviour	Abundance	Behaviour and behavioural ecology
	Occupancy	Inter-species dynamics
	Range use	Adaptations to human interference and anthropogenic pressure
	Habitat ecology	
Geography	Distribution	
Taxonomy	Species and family descriptions	Molecular phylogeny
Evolution	Evolutionary origin	
Conservation	Conservation Status	Mitigating Human-Wildlife Conflict
	Human-wildlife Conflict	Conservation strategies Integrating technology and conservation
Climate change	Effects of climate change on habitat	Effect of anthropogenic climate change on distribution, ecology, behaviour of species
		Adaptation, diversification or extinction of species due to climate change

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Author Index

Mammals

- Adhikari, B.S.
075, 076, 087, 088, 089, 315, 479
- Agarwal, M.
001, 002
- Agarwal, N.M.
401
- Agarwal, S.
003
- Aggarwal, R.K.
004, 005
- Agoramoorthy, G.
012
- Agrawal, V.C.
006, 007, 008
- Ahangar, F.A.
058, 542, 543
- Ahlborn, G.
273
- Ahmad, F.
544
- Ahmad, J.
544
- Ahmad, K.
009, 010, 011, 012, 013, 014, 015, 016, 466
- Ahmad, R.
017, 018, 065, 473
- Ahuja, P.V.
026
- Ahuja, V.P.
548
- Aiyadurai, A.
019
- Akhtar, N.
020, 021
- Akhtar, S.A.
022
- Ale, S.B.
275
- Alfred, J.R.B.
023, 024
- Ali, M.
025
- Allen, P.
381
- Anand, M.O.
189
- Anandam, M.
026, 548
- Angmo, K.
315
- Anon
027
- Apollonio, M.
336
- Areendran, G.
203
- Areendran, S.
028
- Avasthe, R.K.
029, 287
- Awasthi, A.
030, 479
- Aziz, M.A.
031
- Azmi, S.
596
- Babu, M.M.
466
- Bacha, M.S.
466
- Badola, R.
375
- Bagchi, S.
032, 033, 034, 035, 036, 069, 415, 416
- Bahuguna, A.
037
- Bahuguna, N.C.
038, 039
- Bahuguna, S.N.
040
- Baidya, N.G.
041
- Bailey, F.M.
042
- Banerjee, A.
626
- Banerjee, K.
304



- Banerjee, S.
043, 367
- Banerji, H.
044
- Banyal, H.S.
432, 577
- Bardhan Roy, B.K.
045
- Bargali, H.S.
046
- Barkati, S.
438
- Barwal, K.S.
140
- Bashir, T.
047, 048, 049, 050, 051, 079, 080, 518, 519, 520, 522
- Baskaran, S.T.
052
- Basu, D.
500
- Basu, V.
119
- Bauer, K.
108
- Bawri, M.
497
- Bayarjargal, A.
381
- Bhardwaj, A.K.
053, 375
- Bhardwaj, M.
054
- Bhargava, R.N.
055
- Bharti, R.
315
- Bhat, B.A.
056, 057, 058, 256, 542, 543, 544
- Bhat, H.R.
059, 060
- Bhatia, S.
601
- Bhatkoti, D.
061
- Bhatnagar, Y.V.
018, 034, 062, 063, 064, 065, 066, 067, 068, 069, 070, 071,
072, 073, 382, 415, 416, 417, 418, 419, 420, 421, 473, 521,
561, 574, 601, 602, 603, 604
- Bhatt, D.
129, 317
- Bhattacharjee, B.
185
- Bhattacharjee, P.C.
366, 497
- Bhattacharjee, S.
074
- Bhattacharya, S.
075, 076, 077
- Bhattacharya, T.
048, 049, 050, 051, 078, 079, 080, 081, 083, 084, 085, 086,
519, 520, 522
- Bhattacharya, T.P.
082, 237
- Bhattacharyya, S.
087, 088, 089
- Bhowmik, M.K.
090
- Bhunia, P.T.
598
- Bishop, N.H.
091
- Bisht, S.
079
- Biswas, G.G.
092
- Biswas, T.
093
- Blanford, W.T.
094, 095, 096
- Blumstein, D.T.
097
- Blyth, E.
098, 099
- Bonenfant, C.
573
- Bonhote, J.L.
100, 101, 102
- Borang, A.
103
- Brandon-Jones, D.
104
- Buckley-Beason, V.
284
- Bujarbarua, P.
105



Burrard, G.	Chetry, R.
106	144
Camperio, C.A.	Chettri, V.
107	321
Carpenter, C.	Choudhury, A.
108	145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 523
Caughley, G.	Choudhury, A.K.
109	160
Cavillini, P.	Choudhury, A.R.
110	161
Chakraborty, D.	Choudhury, A.U.
111, 112	162
Chakraborty, N.	Choudhury, P.
581	185
Chakraborty, R.	Choudhury, S.
008, 113, 114, 191, 198, 228, 465, 598	163
Chakraborty, S.	Chundawat, R.S.
008, 115, 116, 117, 118, 119, 120, 121, 122, 465	164, 165, 166, 205, 206, 208, 209, 210, 211, 274, 364, 463
Chakraborty, T.	Chutia, P.
090, 123	167
Chanchani, P.	Clements, H.
124, 125, 126	343
Chandel, S.	Cote, S.
160	573, 575, 589, 590, 591
Chandola, S.	Dadda, T.
127, 128	168
Chandra, T.	Dadul, J.
129	279
Chandrasedkhar, M.	Dalgliesh, G.
130	169
Charoo, S.A.	Dam, D.
131, 132, 133, 134, 135, 400, 401, 402, 403, 559, 560	555
Chatterjee, K.	Dang, H.K.
136	170, 171, 172, 173, 174, 175, 176, 177
Chattopadhyay, K.K.	Daniel, M.
181	178
Chaudhuri, S.	Dar, T.A.
082, 408	179, 180, 254
Chauhan, A.	Das, A.J.
137	489
Chauhan, D.S.	Das, D.
001, 138	092
Chauhan, N.P.S.	Das, N.
020, 021, 139, 140, 141, 142, 143, 393, 394, 475	181
Cherukupalli, A.	Das, P.K.
348	182, 209, 210, 211
Chetry, D.	
144, 366	



- Das, S.M.
183
- Das, T.
184
- Dasgupta, S.
185
- Datta, A.
186, 187, 188, 189, 190, 283, 383, 385, 579, 620
- David, A.
292
- De Jong, C.B.
422
- De Silva, P.K.
268
- De, J.K.
113, 120, 191, 192
- De, R.
363
- Dewan, I.
466
- Dey, A.
121
- Dey, P.
121, 193
- Dhaundyal, S.
038
- Dhyani, D.
293
- Dimri, R.
293
- Diqiang, L.
284
- Dobson, G.E.
194, 195
- Dodsworth, P.T.L.
196
- Dollo, M.
197
- Dorjee, D.
198
- Dorji, D.
114
- Dutta, P.K.
114, 198, 226, 586, 588
- Dutta, S.
089
- Dutta, T.
562
- Easa, P.
065
- Elwes, H.J.
199
- Endo, H.
438
- Farooq, M.
200
- Fazili, M.F.
057, 058, 256
- Flousek, J.
201
- Fooden, J.
202
- Forest, J.
203
- Fox, J.L.
204, 205, 206, 207, 208, 209, 210, 211, 418, 419, 420, 421, 479, 574, 575
- Fraser, S.J.R.
437
- Fry, T.B.
212
- Fuwal, M.K.
300
- Gadgil, M.
320, 448
- Gama, N.
322, 580
- Gama, R.S.
581
- Ganguli-Lachungpa, U.
079, 213, 214, 215, 216, 217, 218, 563
- Garson, P.J.
219, 220, 221
- Gaston, A.J.
219, 220, 221
- Gee, E.P.
222, 223
- Gergan, S.S.
224, 225
- Ghosal, D.K.
238
- Ghose, D.
226, 227
- Ghose, P.S.
228, 229, 230, 346, 349, 598



- Ghose, R.K.
231, 232, 233, 234, 235, 236, 237, 238, 239, 306
- Ghosh, D.K.
404
- Ghosh, K.
144
- Ghosh, M.K.
192
- Ghosh, R.K.
405
- Ghosh, S.
240
- Gibson-Hill, C.A.
241
- Gogoi, L.
586
- Gopi, G.V.
163, 242, 255, 341, 342
- Gopi, S.
197
- Goyal, S.P.
001, 002, 126, 188, 243, 252, 343, 401, 446, 623
- Green, M.J.B.
244, 245, 246, 247, 248, 249, 250
- Groves, C.P.
251
- Guha, S.
252
- Gupta, P.
253
- Gupta, S.K.
268
- Gyeltshen, K.
203
- Habib, B.
011, 179, 180, 254, 255, 256, 257, 262, 274, 328, 342, 343, 374, 435, 568
- Haimoff, E.H.
258
- Hassan, U.
259
- Hatnagar, Y.V.
032
- Hayward M.W.
343
- Hazarika, A.A.
260
- Heitkonig, I.
390, 391
- Hennelly, L.
261, 262
- Hillard, D.
280
- Hoffmann, R.S.
263
- Holloway, C.W.
264
- Holmes, J.
265
- Huettmann, F.
300
- Hunter, D.O.
276, 463
- Hunter, M.L.
220, 221
- Hussain, A.
266, 267, 555
- Hussain, S.A.
168, 268, 466
- Hussein, N.A.
438
- Ilyas, O.
269, 270, 271
- Inayat Ullah, M.
272
- Iqbal, S.
272, 466
- Ishvaran, K.
620
- Jackson, R.
071, 273, 274, 275, 276, 277, 278, 279, 280, 284
- Jain, M.S.
281
- Jamdar, N.
282
- James, J.
283
- Jan, U.
058, 542, 543, 544
- Jana, S.
121
- Janecka, J.E.
284
- Jha, A.
029, 285, 286, 287, 288



- Jha, A.K.
253, 289, 321, 486, 487
- Jha, V.
288
- Jhala, Y.V.
257, 304
- Johnsingh, A.J.T.
068, 290, 291, 292, 384, 479, 524, 525, 526, 530, 554, 634
- Joshi, R.
293
- Kait, R.
294, 295
- Kakati, K.
296
- Kala, C.P.
297
- Kamalakannan, M.
555, 556
- Kandari, O.P.
298, 299
- Kandel, K.
300
- Kandpal, V.
301, 302
- Kashyap, V.
252
- Kaul, R.
018, 065, 307
- Kaur, B.J.
303
- Kaushik, M.
304
- Ketner, P.
390
- Khajuria, H.
305, 306
- Khaling, S.
307, 460
- Khan, A.
328
- Khan, J.A.
010, 179, 180, 254, 271, 461, 462
- Kharshikar, A.V.
448
- Khatiwara, S.
308
- Khursheed, A.
309
- Kinloch, A.A.
310
- Kitchloo, N.A.
466
- Kittur, S.
081, 311, 312, 313
- Kivisild, T.
004
- Kohli, M.
314
- Kotia, A.
315
- Krishna, M.
316
- Kujur, S.
351
- Kukreti, M.
317
- Kumar, A.
130, 316, 318, 345, 370
- Kumar, D.
140, 141, 319
- Kumar, H.
363
- Kumar, L.
293
- Kumar, M.D.
581
- Kumar, P.
320, 321, 596
- Kumar, R.S.
322, 323, 324, 580
- Kumar, S.
294, 325, 435, 498
- Kumar, V.
130, 401
- Kumar, V.P.
399
- Kurt, F.
326, 327
- Kushwaha, S.P.S.
180, 254, 328
- Kyarong, S.S.
065, 473, 619
- Lal, J.P.
329, 330
- Lal, P.
066



Lalthanpuia	Malik, N.A.
142	011
Lama, S.T.	Malik, P.K.
300	527
Lamba, B.S.	Mallick, J.K.
331, 332	039, 352, 353, 354, 355, 356, 357
Lattoo, A.R.	Mallon, D.
466	274
Lecomte, N.	Mallon, D.R.
575	437
Legshey, K.	Mandal, A.K.
228	192, 358, 359, 360
Lehmkuhl, J.F.	Maniktala, R.
363	376
Leus, K.	Manjrekar, N.
227	361, 362
Lindsay, H.M.	Mansoor, R.A.
333, 334	466
Littledale, H.	Masuda, R.
335	438
Lone, F.A.	Mathur, P.K.
031	363, 368, 369
Lone, I.A.	Mathur, V.B.
065, 466	066, 093, 364
Lone, S.	Matthews, W.H.
031	365
Lovari, S.	Mattu, V.K.
336, 337	495
Ludlow, F.	Mazumdar, K
338	114
Lydekker, R.	Mazumdar, K.
339, 340	163, 197
Lyngdoh, S.	Mazumdar, S.
242, 262, 341, 342, 343	203
Madhusudan, M.D.	Mazumder, P.C.
190, 381, 383, 385, 579, 580	082
Madhusudan, U.	Mazumer, P.C.
581	408
Mahajan, K.K.	McCarthy, T.
344, 398	067, 274, 275, 381
Mahar, N.	Medhi, R.
568	366
Maheshwaran, G.	Meheshwari, A.
345	367
Maheshwari, A.	Mehra, B.S.
203, 346, 347, 348, 349, 350, 351	368, 369
Majhi, A.	Meibom, S.V.
136	347



- Mendiratta, N.
180
- Mendiratta, U.
370, 581
- Menon, V.
371
- Midha, N.
348, 349
- Miller, G.S.
372, 373
- Milner-Gullan, E.J.
019
- Mir, M.S.
011
- Mir, Z.R.
255, 374
- Mirza, Z.B.
538
- Mishra, B.K.
375, 376
- Mishra, C.
018, 033, 034, 067, 069, 072, 073, 111, 190, 275, 314, 322, 323, 324, 337, 370, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 416, 422, 423, 561, 579, 580, 581, 601, 602, 603, 604
- Mitra, S.
392
- Mohan, D.
292
- Mohanta, R.
143, 393, 394
- Mohnot, S.M.
494
- Molur, S.
227, 395
- Mondal, K.K.
396
- Mudappa, D.
397
- Mukerji, R.
398
- Mukesh
399, 400, 401, 402, 403
- Mukherjee, R.
404, 405
- Mukherjee, R.N.
344
- Mukherjee, S.
037, 406
- Mukhopadhyay, A.
092, 407
- Munkhtsog, B.
284
- Murmu, A.
082, 408
- Murphy, W.J.
284
- Muslim, M.
200
- Muthamizh, K.
242
- Naha, D.
304
- Nahmo, L.T.
114
- Naidoo, R.
203
- Naithani, H.B.
128
- Nameer, P.O.
395
- Namgail, T.
035, 069, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 564
- Nandy, H.
119
- Naniwadekar, R.
189
- Naqash, R.Y.
134, 426, 466
- Narang, M.L.
427
- Nath, A.
428
- Nath, R.
429
- Nath, S.
430, 431
- Nazir, I.
256
- Negi, R.K.
432
- Negi, S.S.
433
- Nekaris, K.A.I.
300



- Nepal, R.
108
- Network, S.L.
434
- Nigam, P.
011, 012, 013
- Nijman, V.
300
- Noor, A.
255, 374, 435
- Nurbu, C.
207, 208
- Onial, J.N.
436
- Osborne, B.C.
437
- Oshida, T.
438
- Osmaston, B.B.
439
- Oza, G.M.
440, 441, 442, 443
- Paliwal, A.
349
- Paliwal, R.
318
- Panchaksharam, Y.
565
- Pandey, S.
444
- Panor, J.
111
- Pansa, J.
190
- Panwar, H.S.
463
- Paranjpe, S.
349
- Parsa, M.A.
466
- Pendharkar, A.
445, 446
- Pfister, O.
447
- Pintso, T.
229, 230
- Pirta, R.S.
137, 320, 448
- Pocock, R.I.
449, 450, 451, 452, 453, 454, 455
- Poudyal, K.
048, 049, 050, 051, 079, 080, 519, 520, 522
- Pradhan, R.
460
- Pradhan, S.
456, 457, 458, 459, 460, 461, 462, 598
- Pradhan, U.
321
- Prasad, S.N.
463, 528
- Prater, S.H.
464
- Pratihari, S.
465
- Prins, H.H.
073, 381, 386, 390, 391, 422, 423, 424, 425
- Punam
160
- Qadri, A.
328
- Qureshi, Q.
001, 012, 013, 014, 015, 016, 049, 050, 165, 267, 272, 304,
364, 466, 529
- Radhakrishna, S.
499
- Raghavan, B.
467
- Raghunath, R.
065, 322
- Rai, U.
487
- Rais, Z.
011
- Rajadnya, K.K.
489
- Rajagopal, A.S.
468
- Rajapandian, K.
292
- Ramadevi, J.
004, 005
- Ramakrishnan, U.
111, 112, 283, 581
- Ramesh, K.
292, 469, 618



- Rana, B.S.
470
- Rana, M.S.
003
- Ranade, R.V.
471
- Ranjitsinh, M.K.
065, 472, 473
- Rashid, H.
200
- Rathore, B.C.
474, 475
- Rattan, S.K.
476
- Ravan, S.A.
489
- Rawat, G.S.
030, 068, 075, 076, 081, 083, 087, 088, 089, 126, 128, 166,
267, 297, 311, 312, 313, 315, 463, 477, 478, 479, 480, 481,
482, 524, 526, 530, 554
- Ray, C.
077
- Ray, P.C.
316
- Redpath, S.
601, 604
- Redpath, S.R.
387
- Regmi, G.R.
300
- Reshamwala, H.S.
568
- Rice, C.G.
483
- Richardson, J.W. St.
484
- Ritchie, M.E.
032, 035, 036
- Roberts, T.J.
485
- Roe, J.D.
276
- Roka, B.
486, 487
- Roonwal, M.L.
488
- Roy, M.
051
- Roy, P.S.
489
- Roy, S.G.
239
- Saberwal, V.K.
490, 491
- Sah, A.
492
- Saha, G.K.
080, 307, 461, 462
- Saha, S.S.
404, 405, 493
- Sahi, D.N.
294, 295, 325, 498
- Sahoo, S.K.
320, 494
- Saikia, U.
495, 496, 497, 553, 557, 569
- Sain, K.
002
- Saini, K.
569
- Samal, K.
163
- Sambyal, P.
498
- Sankar, K.
479, 480
- Sankaran, M.
314
- Sanyal, A.
054
- Sanyal, A.K.
054
- Saraswat, R.
499
- Saren, P.C.
500
- Sarma, K.
316, 596
- Sathyakumar, S.
003, 014, 015, 016, 030, 048, 049, 050, 051, 066, 079, 080,
081, 083, 084, 085, 086, 132, 133, 134, 135, 272, 302, 304,
311, 312, 313, 350, 399, 400, 401, 402, 403, 469, 479, 481,
482, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511,
512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523,
524, 525, 526, 527, 528, 529, 530, 531, 559, 560, 623, 624,
625
- Sati, J.P.
532, 533



Sawarkar, V.B.	Sharma, D.K.
363	024, 496
Schaller, G.B.	Sharma, D.T.
534, 535, 536, 537, 538	553
Scully, J.	Sharma, G.
539	555, 556
Searight, E.E.G.L.	Sharma, H.P.
540	300
Selvan, K.M.	Sharma, I.
242, 341, 342	557, 569
Selvarani, K.	Sharma, L.K.
584	132, 133, 134, 135, 141, 399, 400, 401, 402, 403, 558, 559, 560
Sen, A.K.	Sharma, P.K.
122	160
Sen, N.N.	Sharma, R.K.
541	561
Sen, P.	Sharma, R.M.
119	024, 495, 496
Sengupta, K.	Sharma, S.
627	562
Seth, C.	Sharma, T.
065, 069	551, 552, 563
Seth, C.M.	Shawl, T.
473	351, 564, 565
Shafique, C.M.	Shebbeare, E.O.
438	566
Shah, G.M.	Shreshtha, P.
058, 542, 543, 544	229, 230, 349
Shah, J.N.	Shrestha, R.
466	203, 567
Shah, K.B.	Shrotriya, S.
545	257, 343, 568
Shah, M.	Shukla, M.
011	399
Shah, N.	Sidhu, A.K.
546	569
Shah, N.V.	Singh, A.
466, 547	328
Shah, T.A.	Singh, D.
026, 548	002
Sharma, B.	Singh, G.
228	621
Sharma, B.D.	Singh, K.G.
549, 550, 551, 552	570
Sharma, B.K.	Singh, L.
229, 230, 349, 598	004, 005
Sharma, D.	
350, 367, 554	



- Singh, N.J.
018, 019, 571, 572, 573, 574, 575
- Singh, P.
576
- Singh, S.
489
- Singh, S.K.
297
- Singh, V.
577, 578
- Singhal, N.
038, 493
- Sinha, A.
111, 112, 322, 323, 324, 370, 388, 499, 579, 580
- Sinha, D.
581
- Sinha, N.K.
532
- Sinha, S.P.
209, 210, 211
- Sinha, Y.P.
582, 583
- Sivasubramaniam, K.
584
- Smith, A.T.
585
- Soud, R.
586
- Spillett, J.J.A.
587
- Srinivasulu, A.
548
- Srivastava, T.
114, 130, 308, 588
- St-Louis, A.
589, 590, 591
- Starkey, R.W.
070, 071
- Stockley, C.
592
- Stoliczka, F.
593
- Stracey, P.D.
594
- Stuwe, M.
068
- Subba, J.R.
595
- Subedi, T.R.
300
- Sudhan, N.A.
596
- Sugiyama, Y.
597
- Suhail, I.
013, 466, 568
- Sunar, D.
598
- Sur, C.M.
599
- Suri, S.
596
- Suryawanshi, K.R.
314, 382, 387, 389, 600, 601, 602, 603, 604
- Tak, P.C.
024, 332, 533, 553, 605, 606, 607
- Takpa, J.
069, 351, 564, 568
- Talukder, B.
408
- Tashi, P.
565
- Teegalapalli, K.
197
- Thakur, M.
402, 403
- Thakur, M.L.
497, 578
- Thapa, A.
300
- Thapa, G.J.
203
- Thapa, J.
608
- Thapa, K.
203
- Thapliyal, G.
103
- Theengh, L.T.
229, 230
- Thomas, O.
609, 610, 611, 612, 613, 614
- Tickell, S.R.
615
- Tripathi, A.
363



Tripathi, S.	Vyas, P.
121	038, 627
True, F.W.	Wada, K.
616	628, 629
Ul-Haq, S.	Wadoo, A.R.
069	466
Umapathy, G.	Walker, S.
130	395, 528
Uniyal, S.K.	Wangchuk, R.
030, 479	072, 073, 276, 277, 278, 279, 280
Uniyal, V.	Wangchuk, T.
054, 626	554
Uniyal, V.P.	Wangehuk, R.
617, 618	415
Upadhyay, A.K.	Ward, A.E.
479	630, 631, 632
Upadhyay, K.A.	Wegge, P.
480	633
Upadhyay, M.K.	Wegge, R.
040	567
Valley, S.	Wieren, S.E.
318	391
Van Wieren, S.E.	Wikramanayake, E.
073, 386, 390, 422, 423, 424, 425	203
Varma, S.	Williams, A.C.
619	634
Veeraswami, G.G.	Wrenicke, C.J.T.
374	635
Velho, N.	Wroughton, R.C.
620	636, 637, 638, 639
Venkataraman, K.	Yanagawa, H.
556	438
Verma, A.K.	Yasuda, M.
621	438
Vinod, T.R.	Yin, U.T.
622, 623, 624, 625	640
Virkar, P.S.	Yoccoz, N.G.
626	573, 574, 575
Vishanath, S.	Yuquang, Z.
531	284
	Zargar, R.A.
	466



03

Birds of the Indian Himalayan Region



Bibliography on the Birds of the Indian Himalayan Region

Sohini Chaudhuri, Bhavya Iyer, Kamalika Bhattacharya, Tapajit Bhattacharya, Krishnamurthy Ramesh, Pratap Singh and Sambandam Sathyakumar

Introduction

The Indian Himalayan Region (IHR) is bestowed with very rich and diverse avian assemblage. Of the 1313+ bird species found in India (Parveen et al. 2016), around 900 are found in the Himalaya. Roughly 450 of these breed in the IHR. As far as regional endemism is concerned, there are 11 endemic birds in the western Himalaya. These species include the cheer pheasant (*Catreus wallichii*) and the western tragopan (*Tragopan melanocephalus*). The western Himalayan region has also been designated by Birdlife International as an Endemic Bird Area (EBA No., 128), and contains 27 Important Bird Areas (IBAs) (Islam and Rahmani, 2004). The eastern Himalayan region, also an EBA, is one of the most diverse regions in the world in terms of bird diversity (Stattersfield et al., 1998). The eastern Himalayan region has the presence of 22 restricted-range bird species, 19 of which being endemic just to this region (Stattersfield et al., 1998; Jathar and Rahmani, 2006). Examples include that of the chestnut-breasted partridge (*Arborophila mandellii*), rusty-throated wren babbler (*Spelaeornis badeigularis*), white-throated tit (*Aegithalos niveogularis*), and orange bullfinch (*Pyrrhula aurantiaca*) (Stattersfield, 1998). In terms of globally threatened bird species in Asia, this region represents one of their largest concentrations (Acharya and Vijayan, 2010).

The scientific literature on birds of South Asia is available dating back to 17th Century. A huge compilation of the available literature on birds of South Asia is now available in the web in the form of “Bibliography of South Asian Ornithology - compiled by AasheeshPittie” (Pittie 2011). However, information on ornithological studies in Indian Himalayan Region was not available on a single platform. This article comprises the information on available scientific literature on avifauna of Indian Himalayan Region, particularly the trend of research with time and the knowledge gap.

Methods

The database of “Bibliography of South Asian Ornithology - compiled by Aasheesh Pittie” (Pittie 2011) was searched using the search terms “Himalaya” and name of the six Himalayan States such as “Jammu and Kashmir”, “Himachal Pradesh”, “Uttarakhand”, “Sikkim”, “Arunachal Pradesh” and “West Bengal”. Other database and journals, such as Conservation Science, Tigerpaper, Cheetal, The Journal of Threatened Taxa, The Journal of the Bombay natural History Society, etc., were also searched from relevant literature. All the information was entered in a MS Excel spreadsheet and arranged alphabetically to remove any duplication. All the analyses were carried out in MS Excel to determine the trend of research over the decades, the emphasised areas and the knowledge gap.

Results and Discussion

The bibliography on avifauna of Indian Himalayan Region includes 1567 unique entries covering a period of almost two centuries, starting from 1833 to 2016. We categorized the articles in three distinct ways: A) The first category was based on parts of six Himalayan States (Jammu and Kashmir, Himachal Pradesh, Uttarakhand, Sikkim, West Bengal – Darjeeling and Jalpaiguri district – and Arunachal Pradesh) where the studies were carried out. B) The second category was based on their publication dates, in which the studies were grouped in 10-year intervals from 1830 to 2016; this enabled us to see the research trends and patterns. C) The third category was based on the subject focus of the research; the publications were categorized based on the broad subjects (ecology and behaviour, geography, taxonomy, evolution, conservation and climate change impact) on which the research was carried out.

Geographical Distribution of Publications:

Publications have been classified according to the region or state where most of the research work was carried out. A majority of publications were based in the state of Jammu and Kashmir (252 publications) – mostly in the Ladakh region. This is followed by Uttarakhand (194), then Himachal Pradesh (193) and Arunachal Pradesh (157) (Table 3.1). Other publications could not be classified region-wise as they dealt with a large number of states, or the entire country, or no state was specified.

Table 3.1 State wise distribution of publications

States	Number of Publications
Jammu and Kashmir	252
Himachal Pradesh	193
Uttarakhand	194
Sikkim	73
West Bengal	10
Arunachal Pradesh	164
Others	681

Temporal Pattern of Publications:

Publications date from 1834 to 2016. Publications from the 19th century and early 20th century, were mostly descriptions of existing and new species, along with taxonomy, feeding and breeding habits, etc. Later this widens to include geographical range, ecology, and more recently, conservation. The most number of publications was in the 1991-2000 decade, with 314 publications, shortly followed by the following decade, 2001-2010, with 299 publications (Fig. 3.1). The 2011-2016 decade is not being considered in analysis as the decade is not yet

complete, though it is projected to surpass the previous decades in terms of number of publications.

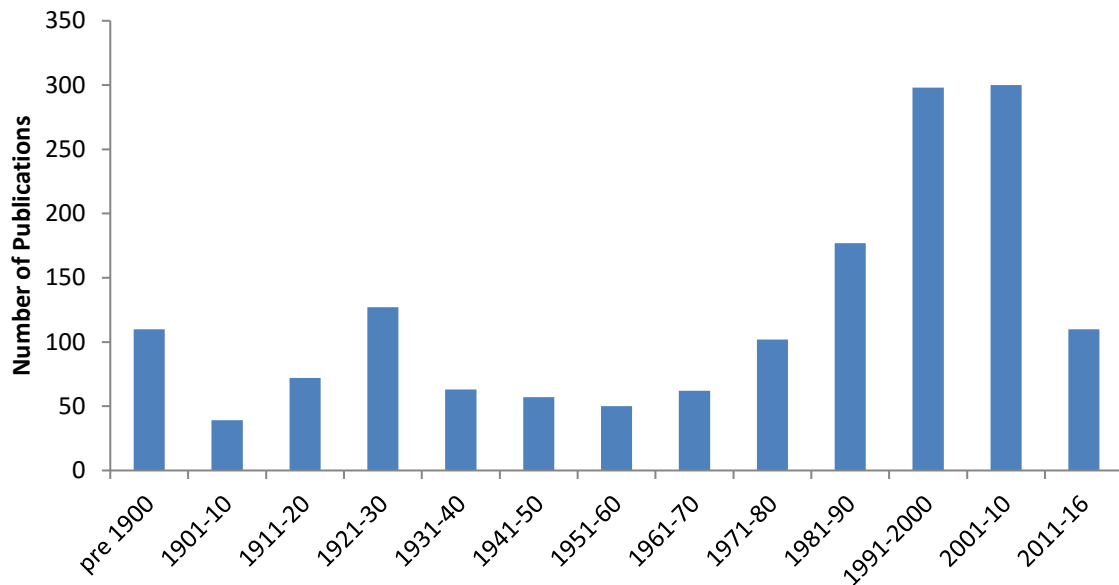


Figure 3.1 Temporal pattern of publications on avifauna of Indian Himalayan Region

Publication by subject

Publications were categorised according to broad topics, which were further sub-divided. A majority of publications which had a specific topic dealt with ecology and behaviour, followed by distribution, then taxonomy. Ecology publications mostly focused on breeding ecology (185 papers), or general biology, with some on breeding and foraging ecology (37 each). Publications dealing with bird behaviour were similarly mostly focused on breeding behaviour (141 papers) (Fig. 3.2). Very few papers were on evolution (8), and only 3 on climate change. With climate change and its effects on birds becoming increasingly relevant, and with the status of birds as an indicator of climate change, this topic is projected to become a focus of research in the future. Publications on conservation (174 papers) were mostly on pheasants, and a majority of those were on habitat conservation, as well as reintroduction.

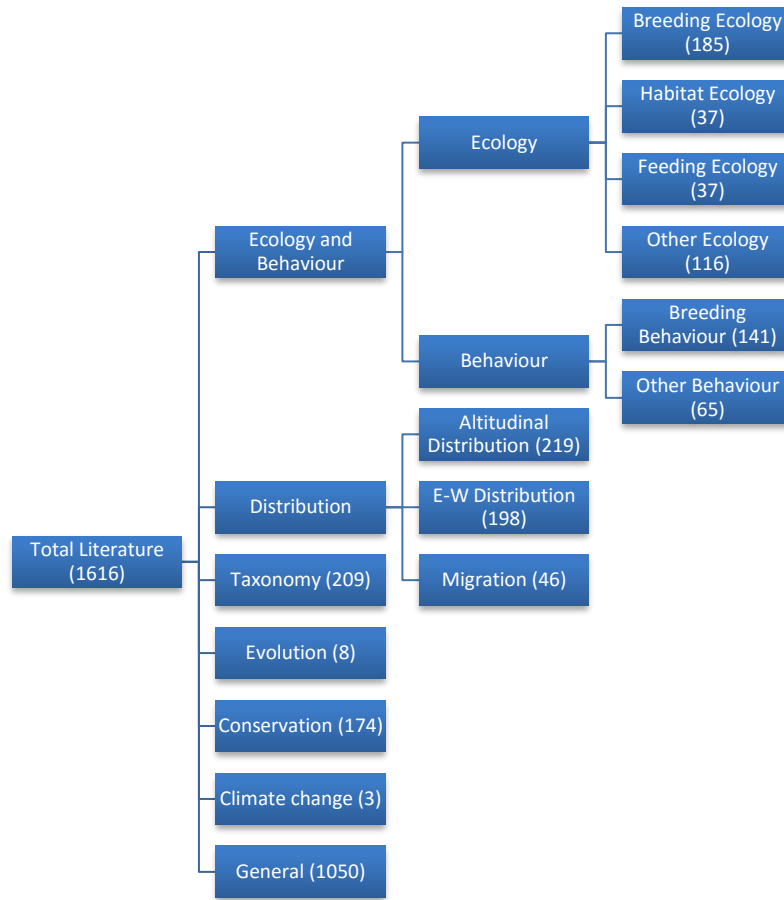


Figure 3.2 Number of publications on birds of the Indian Himalayan Region in different subject categories

Research Gaps and Future Priorities

The focus of bird research in the IHR the past has been on been mostly nesting and breeding ecology, distribution and migration patterns, habitat use, descriptions of species, and conservation of the more vulnerable species (pheasant, black-necked storks, etc) (Table 3.2). Research on East-West distribution and Altitudinal migration due to climate change, multi-species group dynamics, speciation, molecular phylogeny, and habitat conservation will fill up gaps in current knowledge. We feel that future priorities of research will be effects of climate change on distribution, ecology, behaviour, and climate change-caused adaptation and diversification or extinction of species

Table 3.2 The key past and future research priorities based on the current assessment

Subject Area	Key past research priorities	Research Gap and future priorities
Ecology and Behaviour	Distribution	East-West Distribution
	Nesting and breeding behaviour	Feeding Habits
	Migration pattern	Behaviour
	Range and habitat use	Multi-species group dynamics
Taxonomy	Descriptions of species	Sub-species identification
		Splitting of species into sub-species or separate species across E-W range
		Molecular Phylogeny
Evolution	Adaptive radiation	Evolution and diversification of other bird groups
	Evolution of ecological differences in Old-World leaf warblers	
Conservation	Pheasant conservation	Habitat conservation
	Reintroduction	Large-scale conservation
Climate change	Pliocene climate-change causing diversification	Further proof of range-shifts in birds due to change in climate
	Increase in plains-birds in hilly regions	Effect of anthropogenic climate change on distribution, ecology, behaviour of species
		Adaptation, diversification or extinction of species due to climate change

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Author Index

Birds

- Abass, Md.
0001, 0002
- Abdulali, H.
0003, 0004, 0005, 0006, 0007
- Abhinav, C.
0008, 0009, 1266, 1306
- Abrol, D.P.
0010
- Acharya, B.K.
0011, 0012
- Acharya, M.N.
0013
- Adams, A.L.
0014, 0015
- Adhikari, B.S.
1179, 1367
- Ahanger, F.A.
0016, 0017, 0018, 0398, 1292
- Ahmad, K.
0019, 1043, 1044, 1174
- Ahmed, A.
0020, 0021, 0022, 0023, 0024, 0025, 0604, 0743, 0800
- Ahmed, M.F.
0026
- Aitken, W.M.
0027
- Aiyadurai, A.
0028, 0029
- Akhtar, A.
0030, 0053, 1027
- Akhtar, K.
1563
- Akhtar, S.A.
0031, 0032, 0033
- Alexander, H.G.
0034, 0035, 0036
- Ali, R.
0037
- Ali, S.
0038, 0039, 0040, 0041, 0042, 0043, 0044, 0045, 0046,
0047, 0048, 0049, 0050, 0051, 0052, 0053, 0055, 0056,
0057, 0058, 0059, 0060
- Ali, S.M.
0054
- Allen, D.
0320
- Allen, S.
0061
- Alstrom, P.
0062, 0063, 0064, 0065, 0694, 1152
- Ambedkar, V.C.
0066, 0067, 0068
- Anand, M.O.
1379
- Anderson, A.
0069, 0070, 0071, 0072
- Anderson, J.C.
0073
- Andrew, P.
1507
- Anon
0074, 0075, 0076, 0077, 0078, 0079, 0080
- Ansari, M.
0612
- Appleford, W.G.
0081
- Athreya, R.
0082, 0083, 0084, 0085, 0086, 0315, 1275
- Athreya, V.C.
0087
- Athreya, V.R.
1275
- Atkinson, E.T.D.
0088
- Atkore, V.M.
0089, 0090
- Awati, M.P.
0091, 0092
- Bacha, M.S.



- 0867
Bachketi, N.D.
0093
Backer, E.C.S.
0094
Badola, R.
0602
Bagchi, R.
1139
Bailey, F.M.
0095
Bajpai, N.K.
0096
Baker, E.C.S.
0097, 0098, 0099, 0100, 0101, 0102, 0103, 0104, 0105,
0106, 0107, 0108, 0109, 0110, 0111, 0112, 0113, 0114,
0115, 0116, 0117
Bakhsh, J.
0118
Banerjee, A.
0119
Bangdel, L.S.
0413
Bangs, O.
0120
Bannerjee, A.K.
0121
Banumathi, C.P.
1437
Barman, R.
0122
Barman, S.
0123
Barnes, H.E.
0124
Barua, M.
0125, 1260
Barve, S.
0126
Bashir, S.
0127, 0128, 0129
Bashir, T.
0130
Basil-Edwardes, S.
0131, 0132, 0133, 0134
Bassapannavar, C.H.
0135
Basu-Roy, S.
0393
Basuroy, A.
0979
Batabayar, N.
1421
Bates, R.S.P.
0136, 0137, 0138, 0139, 0140, 0141, 0142, 0143, 0144,
0145, 0146, 0147, 0148
Beaman, M.
0149, 0150
Beaven, R.C.
0151
Beebe, C.W.
0152, 0153
Beehler, B.M.
1220, 1222
Belliappa, K.M.
1140
Benniff, A.H.
0154
Bensch, S.
0155
Benstead, P.
0156, 0157
Beresford, de la P.
0158
Bermingham, E.
1165
Berriff, A.H.
0159
Betterton, F.A.
0160
Betts, F.N.
0161
Bhandari, S.
0858
Bhardwaj, G.S.
1287
Bhargav, V.K.
0162
Bhargava, R.
0163
Bhat, B.A.
0399, 1292
Bhatnagar, A.K.
0164
Bhatnagar, R.K.
0165, 0166, 0167, 0168



Bhatt, D.
0236, 0710, 1004, 1005
Bhattacharji, C.
0169
Bhattacharya, T.
0130, 0170, 0171
Bhattacharyya, S.
1179
Bhattacharyya, T.P.
0393
Bhutia, N.T.
0445
Bhutia, P.T.
1469
Bhuyan, R.
0713
Bijleveld, M.F.I.J.
1474
Birand, A.
0172
Bird Life International
0173
Bishop, C.M.
1421
Bishop, M.A.
0174
Bisht, M.S.
0175, 0176, 0177, 0858
Biswas, B.
0178, 0179, 0180, 0181, 0182, 0183, 0184, 0185
Bland, B.
0186
Blanford, W.T.
0187, 0188, 0189, 0190, 0191, 0192, 0193, 0194
Blyth, E.
0195, 0196, 0197, 0198, 0199, 0200, 0201, 0202
Bomford, T.
0203
Bonpo, C.R.
0204, 1178
Borah, P.J.
0947
Borse, M.
0205
Bose, S.
0860, 0924, 0925
Boyd, J.E.M.
0206
Bozic, L.U.
1475
Briggs, F.S.
0207, 0208
Brooks, W.E.
0209, 0210, 0211, 0212, 0213, 0214, 0215, 0216
Buchanan, C.D.
1152
Buchanan, K.
0217
Buckton, S.
0218
Buckton, S.T.
0929
Bulger, G.E.
0219
Bulsara, F.F.C.
0220
Buner, F.
0221
Burns, P.F.
0222
Butler, P.J.
1421
Cama, P.
0223
Capper W.
0224
Cariappa, K.C.
0225
Catsis, M.
0061
Chacko, R.T.
0226, 0227, 0228, 0229, 0230
Chandan, P.
0231, 0232, 0233, 1174
Chandiramani, S.S.
0281
Chandola, S.
1368
Chandola-Saklani, A.
0177, 0234, 1301
Chandole, A.
0235
Chandra, M.
0994, 0995, 0999
Chandra, T.
0236



- Chathoth, N.
0237
- Chatterjea, N.N.
0238, 0239, 0500, 0501
- Chatterjee, A.
0231, 0232, 0233
- Chatterjee, A.K.
0240
- Chatterjee, S.
0241, 0810
- Chaturvedi, D.
1307
- Chaturvedi, N.
0797
- Chaudhari, A.N.
0242
- Chaudhuri, C.
0243, 0244
- Chauhan, B.S.
0245, 0246
- Chavan, V.
1030
- Chettri, N.
0247, 0248, 0249
- Cheung, N.
0250
- Choudhury, A.
0251, 0252, 0253, 0254, 0255, 0256, 0257, 0258, 0259,
0260, 0261, 0262, 0263, 0264, 0265, 0266, 0267, 0268,
0269, 0270, 0271, 0272, 0273, 0274, 0275, 0276, 0277,
0278, 0279, 0280, 0281
- Choudhury, B.C.
0684, 1421
- Chundawat, R.S.
0282
- Clark, W.S.
0283
- Cock
0284
- Coldstream, J.
0285
- Collar, N.J.
0286
- Comber, E.
0287
- Cordeaux, W.W.
0288, 0289
- Covell, G.
0290
- Cox, J.
0291
- Crawford, J.A.
0474
- Crosby, M.
0292
- Cruickshank, A.
0293
- D'Cunha, E.
0053, 1027
- D'Silva, C.
1014
- D'Souza, E.
0294
- Dadda, T.
0089
- Dalvi, S.
0295, 1011, 1142, 1379, 1380
- Damle, S.
0296
- Dang, H.
0297, 0298, 0299
- Daniel, J.C.
0053, 0067, 0068, 0300
- Dar, N.I.
1563, 1564
- Das, S.M.
0301
- Das, V.
1143
- Dasgupta, P.
0302
- Dasgupta, S.
0090
- Datta, A.
0303, 0304, 0305, 0306, 0307, 0308, 0309, 0310, 0311,
0312, 0313, 0314, 0315, 0969, 0970, 1009, 1010, 1379
- Datta, B. K.
0393
- Datta, S.B.
0316
- Davidson, J.
0317
- Davis, D.
0318
- De Sousa, L.
1157
- De, D.



0319
Deb, D.C.
0248, 0249
DeCandido, R.
0320
Deignan, H.G.
0321, 0322, 0323, 0324
Delacour, J.
0325
Delany, S.
0326, 1548, 1549
Den, B.
0327, 0328, 0329, 0330, 0402
Denby, C,
0326

Denby, C.A.
0331
Denzau, H.
0332
Deshpande, P.
1088
Deshpande, V.
1106
Deshwal, A.
0333
Deskyong, N.
0920, 0921
DeSouza, Q.
0334
Devasar, N.
0316
Dewar, D.
0335, 0336, 0337, 0338, 0339, 0340, 0341, 0342, 0343,
0344, 1554
Dey, A.
0026
Dey, K.
0345
Dhadwal, D.S.
0009, 0221, 0346, 0347, 0348, 1306
Dhanze, J.R.
0349, 0350
Dhar, P.
0351
Dhiman, S.
0221, 0925
Dhiman, S.P.

0860, 0924
Dhondt, A.A.
0126
Dhumal, S.
0352
Dhuman, S.S.
1253
Dickinson, E.c.
0353
Diksit, V.K.
0354
Dilawar, M.E.
0355
Dimri, N.K.
0356
Dobriyal, A.K.
0175, 0177

Dodsworth, P.T.L.
0357, 0358, 0359, 0360, 0361, 0362, 0363, 0364, 0365,
0366, 0367, 0368, 0369, 0370, 0371, 0372, 0373, 0374,
0375, 0376, 0377, 0378, 0379, 0380, 0381, 0382
Donahue, J.P.
0808, 0809
Donald, C.H.
0383, 0384, 0385, 0386, 0387, 0388, 0389, 0390
Douglas, D.C.
0684, 1421
Dubey, K.S.
0391
Duda, P.L.
0301
Dudgeon, G.C.
0392
Dudhe, N.
0721
Dutta, B. B.
0393
Dutta, M.
1178
Dutta, P.K.
0511, 0947
Dymond, N.
0394
Eaton, J.A.
0395
Eck, S.
0941



- Edelaar, P.
0396
- Elwes, H.J.
0397
- Fazili, M.F.
0398, 0399, 1292
- Fenton, L.L.
0400, 0401
- Fernandes, M.
0402
- Field, F.
0403, 0404
- Fily, M.
0405
- Finn, F.
0406
- Fleming, R.L.
0407, 0408, 0409
- Fleming, R.L., Jr.
0410, 0411, 0412, 0413
- Fleming, R.L., Sr.
0412, 0413
- Follestad, A.
1112
- Forsman, D.
1015
- Francis M.C.
0414
- Frappell, P.B.
1421
- Fraser, S.
0415
- Friedmann, H.
0416
- Frome, N.F.
0417, 0418
- Fulton, H.
0419, 0420
- Futehally, S.
0421, 0422, 0423
- Futehally, Z.
0424, 0425
- Gammie, J.
0426, 0427
- Gammie, J.A.
0428, 0429
- Ganguli-Lachungpa, U.
0430, 0431, 0432, 0433, 0434, 0435, 0436, 0437, 0438,
0439, 0440, 0441, 0442, 0443, 0444, 0445, 0446, 0447,
0448
- Garbutt, D.
0326
- Garg, G.K.
0865
- Garson, P.J.
0449, 0450, 0451, 0452, 0453, 0454, 0455, 0456, 0457,
0458, 0459, 0460, 0467, 0468, 0469, 0470, 0471, 0472,
0473, 1318
- Gaston, A.J.
0461, 0462, 0463, 0464, 0465, 0466, 0467, 0468, 0469,
0470, 0471, 0472, 0473, 0474, 0475, 0476
- Gaston, T.
0477, 0478, 0479, 0480
- Gaunlett, F.M.
0481
- Gautam, A.
0482
- Gautam, P.
0231, 0232, 0233
- Geale, J.
0810
- George, J.
0483, 0484, 0485, 0486, 1127
- George, P.V.
0487
- Ghorpade, K.
0488, 0489
- Ghosal, D.K.
0996
- Ghose, D.
0490, 0491
- Ghosh, A.K.
0492
- Ghosh, M.
0493, 0494
- Ghosh, R.K.
1001
- Ghosh, S.
0239, 0393, 0495, 0496, 0497, 0498, 0499, 0500, 0501,
0502
- Ghosh-Harihar, M.
0503, 0504, 0505, 1152
- Gibbs, H.L.
1157, 1165
- Gill, E.H.
0506
- Glennie, E.A.



0507
Gode, N.
0508
Godwin-Austen, H.H.
0509, 0510
Gogoi, L.
0511
Gole, P.
0512, 0513, 0514, 0515, 0516, 0517, 0518, 0519, 0520,
0521, 0522, 0523
Goodwin, D.
0524
Gould, J.
0525, 0526, 0527, 0528, 0529, 0530, 0531, 0532, 0533,
0534
Goyal, S.
0535
Gray, J.E.
0536
Green, A.J.
0537
Green, M.J.B.
0538
Greenway, J.C.
0539
Grewal, B.
0540, 0541, 0542, 0543, 0544
Grimmett, R.
0545
Gross, S.
0546, 1158
Gruisen, J.V.
0547
Gulaati, A.
0860
Gupta, A.K.
1181
Gupta, A.P.
0548
Gupta, K.K.
0549, 0550
Gupta, P.D.
0551
Gupta, R.
0552, 0553
Gupta, R.C.
0554
Gupta, S.K.
1152
Gupta, V. J.
1242
Gurney, J.H.
0555, 0556
Gurung, S.
0320
Habib, B.
1044, 1283
Habib, K.
1043
Hackney, M.J.
0557
Haq, S.U
0232
Hargitt, E.
0558
Harington, H.H.
0559
Harrison, J.
0560
Harrison, J.G.
0561
Harrison, J.M
0561
Harrison, M.
0562, 0563, 0564, 0565
Harrop, A.
0566
Hartert, E.
0567
Harvey, B.
0568
Hatchwell, B.J.
0582
Hawkes, L.A.
1421
Heath, S.R.
1421
Helbig, A.
1159
Hellmayr, C.E.
0569
Henderson, D.G.
0893
Hewitt, W.A.
0570
Hilaluddin



- 0571, 0572, 0744, 0745, 0746
Hingston, R.W.G.
0573, 0574, 0575
Hodgson, B.H.
0576, 0577, 0578, 0579
Holmes, P.R.
0580, 0581, 0582, 0583, 1104
Hooker, J.D.
0584
Hooper, D.
1153
Hooper, D.M.
0761, 1152, 1156
Hopkings, D.
0585
Hou, Y.
1421
Hruby, J.
0586
Hudson, C.
0587
Humbert-Droz, B.
0971
Hume, A.O.
0588, 0589, 0590, 0591, 0592, 0593, 0594, 0595
Hunter, M.L.
0468, 0469, 0470, 0472, 0473, 0596
Husain, K.Z.
0597
Hussain, M.S.
0598, 0800, 1395, 1396
Hussain, S.
0802
Hussain, S.A.
0599, 0600, 0601, 0602, 0603, 1221
Hussain, S.M.
0604
Hutton, A.F.
0605
Hutton, T.
0606, 0607, 0608
ICBP
0609
Ilyas, O.
0610, 0611, 0612, 0613, 0802
Inayatullah, M.
0053
Inglis, C.M.
0614, 0615, 0616, 0617, 0618, 0619, 0620, 0621, 0622,
0623, 0624, 0625, 0626, 0627, 0628, 0629, 0630, 0631,
0632, 0633, 0634, 0635, 0636, 0637, 0638, 0639, 0640,
0641, 0642, 0643, 0644, 0645, 0646, 0647, 0648, 0649,
0650, 0651, 0652, 0653, 0654, 0655, 0656
Inskipp, T.
0296, 0545, 0657, 1180
Iqbal, M.
0460, 1168
Iqbal, S.M.
0658
Irby, L.H.
0659
Ishar, M.S.
0660
Ishtiaq, F.
0661, 0693, 1152
Islam, K.
0474
Islam, Z.U.
0446, 0662, 0693, 0804, 1174, 1194
Isvaran, K.
1009, 1010
Ivan, R.
1450
Jackson, P.
0663, 0664
Jackson, R.
0248
Jaganathan, T.V.
0665
Jagdish, R.
1030
Jain, A.
1265, 1308, 1309
Jamdar, K.
1166
Jamdar, N.
0666, 0667, 0668, 0669, 0670, 0671, 0672, 1154, 1160,
1161, 1162, 1163, 1164, 1166
James, A.H.
0673
James, D.A.
0333
Jamwal, K. S.
0674
Jamwal, K.K.S.
0675



Jan, U.
0017, 0018, 0398, 0399, 0942, 1292

Jan, W.
0327, 0328, 0329, 0330, 0402

Jancar, T.
1475

Jandrotia, J.S.
0676, 0677, 0723, 0724, 0744, 0745, 0746, 0747, 0748

Jardine, W.
0678

Jathar, G.
1194

Jathar, G.A.
1031

Javed, S.
0030, 0033, 0679, 0680, 0681, 0682, 0683, 0684, 0806,
1289, 1290, 1421

Jayapal, R.
0685

Jerdon, T.C.
0686, 0687, 0688, 0689

Jha, A.
0690

Jha, A.K.
0978

Jha, S.
0691, 0692

Jha, V.
0690

Jhunjhunwala, S.
0661, 0693

Johansson, U.S.
0694, 1152

Johnsgard, P.A.
0695

Johnsingh, A.J.T.
0696, 1276

Jones, A.E.
0697, 0698, 0699, 0700, 0701, 0702, 0703, 0704, 0705,
0706, 0707, 0708

Jones, H.
0709

Joshi, A.
0722

Joshi, D.C.
1375

Joshi, K.
0710

Joshua, J.
1399

Julka, J.M.
0711

Kalam, A.
1455

Kalita, B.
0712, 0713

Kalpavriksh
1456

Kalra, M.
1030

Kalsi, R.S.
0714, 0715, 0716, 0717, 0750

Kamal, A.
1043, 1044

Kandari, O.P.
0718, 0719

Kannan, R.
0333, 0720

Karim, A.
1564

Karthikeyan, S.
0315

Karuthedathu, D.
1143

Kasambe, R.
0721, 0722

Kathait, B.S.
0175, 0176, 0177

Katoch, S.S.
0676, 0677, 0723, 0724

Katti, M.
0725, 0726, 0727, 0728, 0729

Kaul, R.
0177, 0459, 0460, 0571, 0572, 0604, 0676, 0717, 0730,
0731, 0732, 0733, 0734, 0735, 0736, 0737, 0738, 0739,
0740, 0741, 0742, 0743, 0744, 0745, 0746, 0747, 0748,
0749, 0750, 0751, 0752, 0800, 0801, 0806, 1168, 1289,
1562

Kaul, S.C.
0753

Kazmierczak, K.
0754, 0755, 0756, 0757, 0758

Kelly, C.
0759

Kelsey, M.



- 0760
Kennedy, J.D.
0761
Khacher, K.S.L.
0762, 0763, 0764, 0765, 0766, 0767, 0768, 0769, 0770, 0771, 0772, 0773, 0774, 0775, 0776, 0777, 0778, 0779, 0780, 0781, 0782, 0783, 0784, 0785, 0786, 0787, 0788, 0789, 0790, 0791, 0792, 0793, 0794, 0795, 0796, 0797
Khadilkar, M.
0798
Khajuria, H.
0799
Khan, A.
0802
Khan, J.A.
0604, 0613, 0800, 0801, 0802, 0803, 1290, 1395, 1396, 1397, 1398
Khan, M.A.R.
1043, 1044
Khan, N.
0804, 1030
Khan, S.
0806
Khan, S.A.
0805
Khera, S.
1318
Kichloo, M.A.
1311
King, B.
0807, 0808, 0809, 0810, 0811
Kinnear, N.B.
0812, 0813, 0890, 0891, 0892
Kittur, S.
0162, 0814
Kloss, C.B.
0815, 0816
Koelz, W.
0817, 0818, 0819, 0820, 0821, 0822, 1458
Kohn, J.
0155
Kolvankar, S.G.
0823
Kothari, A.
0824, 0825, 1375
Kotlia, B.S.
1242
Koul, S.C.
0826, 0827
Krishna, C.M.
0828, 0833
Krishna, M.B.
0829
Kukreti, M.
0858
Kulkarni, J.
0830
Kumar, A.
0828, 0831, 0832, 0833, 0834, 1181
Kumar, G.
0867, 1413
Kumar, R.S.
0814, 0835, 0836, 0837, 0838, 0839, 0840, 0841, 0842, 0843, 0844, 0845, 0846, 0847, 0848, 0849, 0850, 0851, 0852, 0853, 0854, 0855, 0856, 0857, 0985, 1011
Kumar, S.
0858
Kumar, V.
1426
Kundangar, M.R.D.
1450
Kuriakose, J.
0204
Kvenild, L.
1112
Laiolo, P.
0859
Lakshminarasimha, R.
0860, 0924, 0925
Lal, H.
1428
Lamba, B.S.
0861, 0862, 0863, 0864, 0865, 0866, 0867
Lambourne, M.
0868
Lamprey, H.F.
0869
Landfried, S.L.
0684
LaPersonne, V.S.
0870, 0871
Law, S.C.
0872, 0873
Leelavit, P.
0948
Liou, L.



0874	0947
Lister, M.D.	Malcolm, L.
0875	0596
Littledale, H.	Malhotra, Y.R.
0876	0301, 0920, 0921, 0922
Lobo, P.	Mallon, D.P.
0877, 0878	0923
Lokaranjan, R.	Malviya, M.
0879	0924, 0925
Loke, W.T.	Mandelli, L.
0880, 0881, 0882, 0883, 0884	0926, 0927
Loskot, V.	Mandros, J.J.
1234	0928
Lovette, I.J.	Manel, S.
1165	0929
Lowndes, D.	Mangalik, A.
0885	0930
Lowther, E.H.N.	Manjeshwar, N.
0148	0931
Luckson, S.	Manjrekar, N.
0447	0729, 0932
Ludlow, F.	Marchetti, K.
0886, 0887, 0888, 0889, 0890, 0891, 0892	0933, 0934, 0935
Lundberg, P.	Marien, D.
0694	0936
Lyngdoh, S.	Marques, D.
1283	1225
MacDonald, D.W.	Marshall, C.H.T.
0893	0284, 0937
Mackintosh, L.J.	Marshall, G.F.L.
0894	0938, 0939
Maclaren, P.I.R.	Martens, J.
0895, 0896	0761, 0940, 0941, 1152, 1442, 1443
Madge, S.C.	Masli, A.A.
0897	0942
Madhusudan, M.D.	Mathews, W.H.
0970, 1009	0943, 0944
Magrath, H.A.F.	Mathur, V.B.
0898, 0899, 0900, 0901, 0902, 0903, 0904	0685, 1030
Mahabal, A.	Matthews, W.H.
0905, 0906, 0907, 0908, 0909, 0910, 0911, 0912, 1315	0945
Mahabal, A.S.	Mattu, V.K.
1088, 1089	1427, 1428, 1429
Mahajan, K.K.	Mayr, E.
0913, 1000	0946
Maheswaran, G.	Mazumdar, K.
0914, 0915, 0916, 0917, 0918, 0919, 0987	0947
Maheswari, A.	McClure, H.E.



- 0948
McGowan, P.
0806, 0949, 0950
McGowan, P.J.K.
0746, 0951
Meganathan, T.
1455
Mehta, A.
0952
Mehta, H.S.
0953, 1244, 1429, 1431
Mehta, K.L.
0954
Mehta, P.
0932
Meinertzhagen, R.
0955, 0956, 0957, 0958, 0959, 0960
Menon, A.K.
0961
Menon, M.
0962
Meppayur, S.
0722
Midha, M.
0554
Miller, J.R.B.
0963, 0964
Mills, J.D.
0965
Milner, C.E.
0966
Milsom, W.K.
1421
Mishra, C.
0967, 0968, 0969, 0970, 0971, 1009
Mishra, P.
0165, 0166, 0167, 0168
Mistry, N.M.
0972, 0973, 0974, 0975
Mitchell, F.J.
0976, 0977
Mitra, A.
0978
Mitra, R.
0979
Mize, D.
0980, 1406
Mohan, D.
0494, 0981, 0982, 0983, 0984, 0985, 0986, 1153, 1155, 1156, 1175
Mondal, A.
1143
Mondal, H.S.
0987
Mookherjee, K.
0502
Moore, F.
0988
Moore, F.Y.
0989
Mor, N.
1140
Morris, P.
0218
Mudappa, D.
1007
Mukherjee, A.K.
0990
Mukherjee, R.
0909, 0913, 0991, 0992, 0993, 0994, 0995, 0996, 1001
Mukherjee, R.N.
0997, 0998, 0999, 1000
Mukherjee, S.
0729
Mukhopadhyay, D.
1002
Mukhopadhyay, S.K.
1002
Mundkur, T.
1112
Musavi, A.H.
0025
Muttu, V.K.
1431, 1432
Myers, S.
1003
Naik, R. N.
0281
Naithani, A.
1004, 1005
Namgail, T.
1006, 1007, 1008
Naniwadekar, R.
1009, 1010, 1011, 1379, 1472
Naoroji, R.



1012, 1013, 1014, 1015, 1016, 1017, 1018, 1251, 1254,
1255, 1256, 1257, 1258, 1259, 1260, 1261, 1262, 1263,
1373
Narang, M.L.
0866, 0867, 1019, 1020, 1021, 1022, 1023, 1024, 1025,
1026
Narayan, G.
1027
Narendra
1028
Naresh, B.V.
1029
Narwade, S.
1030
Narwade, S.S.
1031
Naryan, G.
0053
Natsagdorj, T.
1421
Navarro, S.J.A.
1032, 1033
Nayar, R.C.
1034
Nazir, J.
1035
Nedou, H.
1036
Negi, B.S.
1375
Negi, I.S.
1037
Negi, V.
1430
Neve, E.F.
1038
Newman, S.H.
1421
Newmann, G.
0332
Newsome, J.
1039, 1040, 1041
Newton, P.N.
1042
Nigam, P.
0860, 0924, 0925
Nityananda, V.
1140
Noor, Z.R.M.
1043, 1044
Norton, J.
0326
Nurbu, C.
1045
Nurse, C.G.
1046
Oliver, D.G.
1047
Olsson, P.E.
0694
Olsson, U.
0062, 0063, 0064, 0065, 1152
Orme, C.D.L.
1156
Ormerod, S.J.
0929
Osborn, W.
1048, 1049, 1050
Osman, S.M.
1051
Osmaston, A.E.
1052, 1053, 1054
Osmaston, B.B.
1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063,
1064, 1065, 1066, 1067, 1068, 1069, 1070, 1071, 1072,
1073, 1074, 1075, 1076, 1077, 1078, 1079, 1080
Outlaw, D.C.
1081, 1082
Ovalekar, S.
1253
Oza, G.M.
1083, 1084
Packert, M.
0940
Padmanabhan, S.
1085
Paklina, N.V.
1459
Pal, D.C.
0979
Paliwal, R.
0834, 0953, 1414, 1429, 1431, 1432
Panchen, A.L.
0951
Pandav, B.
0814



- Pande, B.C.
1086, 1087
- Pande, S.A.
1088, 1089
- Pandey, S.
0471, 0475, 1090, 1091, 1092, 1093, 1094, 1095, 1096,
1097, 1098, 1099, 1319
- Pandit, A.K.
1100, 1101, 1102
- Papes, M.
1114
- Paranjypte, V.
1103
- Parr, A.J.
0583, 1104
- Parsons, R.E.
1105
- Pasha, M.K.S.
1106
- Pathak, N.
0825
- Pathania, P.S.
0920, 0921, 0922
- Pawar, S.
0172
- Pawar, U.R.
1107
- Paynter, R.A.
1108
- Pazo, P.O.
1109, 1110
- Pelzeln, A.V.
1111
- Penhallurick, J.
1264
- Perennou, C.
0405, 1112
- Perreau, G.A.
1113
- Perrins, C.
0874
- Perry, W.M.
1421
- Peterson, A.T.
1114
- Pfister, O.
0542, 1115, 1116, 1117, 1118, 1119, 1120, 1121, 1122,
1123, 1124, 1125, 1126
- Phatak, T.C.
1127
- Philips, B.T.
1128, 1129, 1130, 1131
- Phillips, A.P.
0331
- Phillips, W.W.A.
1132
- Phillot, D.C.
1133
- Phillott, D.C.
1134
- Phurailatpam, S.
0176, 0177
- Pikhwai, P.S.
1375
- Pittie, A.
1135
- Poudyal, K.
0130
- Prabhakar, M.
1025
- Prakash, B.
1242
- Prakash, V.
0030, 1251
- Prasad, A.
1136
- Prasad, B.N.
1426
- Prasad, S.N.
1137, 1138, 1276
- Prasanna, M.
1139, 1140
- Prater, S.H.
1141
- Praveen, J.
1142, 1143, 1144
- Price, M.B.
0874
- Price, T.
0155, 0672, 0726, 0727, 0759, 0934, 1145, 1157, 1158,
1159, 1160, 1161, 1162, 1163, 1164, 1165, 1166, 1206
- Price, T.D.
0493, 0505, 0546, 0694, 0728, 0761, 0935, 0986, 1146,
1147, 1148, 1149, 1150, 1151, 1152, 1153, 1154, 1155,
1156, 1358, 1506
- Pring-Mill, F.



1167
Prosser, D. J.
1421
Pundir, D.S.
1030
Punjabi, H.
1016
Qadri, M.Y.
1168, 1293
Qadri, S.
0749
Qadri, S.S.
1169, 1170
Quader, S.
1171
Rahmani, A.R.
0446, 0661, 0662, 0684, 0693, 1031, 1172, 1173, 1174,
1175, 1176, 1421, 1565
Rahut, B.
1177, 1178
Rai, I.D.
1179
Raj, H.
1428
Rajagopal, R.
1180
Ramakantha, V.
1181
Raman, T.R.S.
1007
Ramesh, K.
0860, 0924, 0925, 1182, 1183, 1184, 1185, 1186, 1187,
1367
Rana, B. S.
1188
Rana, R.S.
1024, 1025
Rao, P.
0033
Rao, R. J.
0805
Rao, V.U.S.
1189
Rasmussen, P.C.
0065, 1156, 1190, 1191
Rasool, T.J.
1192
Rastogi, A.
1193, 1194
Rath, F.
1195
Ratray, R.H.
1196, 1197, 1198
Rawat, D.S.
1199
Rawat, G.S.
0171, 0313, 0314, 0846, 1184, 1185, 1186, 1187, 1276,
1359
Raza, R.
0750
Redman, N.
1200
Reed, T.M.
1201, 1202
Reeves, S.K.
1203
Reid, G.
1204
Rheindt, F.E.
0395, 1205
Richman, A.D.
0935, 1157, 1159, 1165, 1206
Rieger, Indo
1207
Ripley, S.D.
0055, 0056, 0057, 0058, 0059, 0060, 1208, 1209, 1210,
1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219,
1220, 1221, 1222
Ritschard, M.
1223, 1224, 1225
Robbins, G.E.S.
1226
Roberts, J.
1227
Robson, C.
0811, 1228
Rodon, G.S.
1229, 1230
Rosalind, L.
0053, 1027, 1231
Roselaar, C.S.
1232, 1233
Round, P.D.
1234
Roy, B.K.B.
1235
Roy, P.C.



- 0828
Ruttledge, R.F.
1236
Safiq, Md.
1327
Sah, A.
1237
Saha, S.S.
0996, 1001, 1222, 1238, 1239
Sahgal, B.
1240
Sahi, D.N.
1241
Sahni, A.
1242

Saiduzzafar, H.
1243
Saikia, U.
0834, 1244
Saili, G.
1245, 1246
Saini, S.S.
1247, 1248, 1249, 1250
Sakthivel, R.
0393
Sale, J.B.
1080
Samant, J.S.
1251
Sangha, H.S.
1017, 1018, 1252, 1253, 1254, 1255, 1256, 1257, 1258,
1259, 1260, 1261, 1262, 1263, 1264, 1265, 1266, 1308,
1309
Sankaran, R.
1176, 1267, 1268, 1269
Santharam, V.
1270, 1271
Sar, C.K.
1272
Sarma, H.N.
0980
Sarma, K.
0828, 0833
Sathasivam, K.
1273
Sathyakumar, S.
0130, 0170, 0171, 0685, 0846, 1184, 1185, 1186, 1187,
1274, 1275, 1276

Sati, J.P.
1415, 1416, 1417, 1418, 1419
Satpute, S.
1030
Savage, C.D.W.
0006, 1277, 1278
Saxena, R.
1279
Schmitt, N.J.
0283
Sclater, P.L.
1280
Scott, D.A.
1112
Scott, G.R.
1421
Seam, J.C.
0242
Searight, E.E.G.L.
1281, 1282
Selby, P.J.
0678
Selvan, K.M.
1283
Sen, A.K.
1284
Sen, D.
1285, 1286
Sen, M.
1455
Sen, S.
0543, 0544, 1287
Seth, C.M.
0232
Seth, M.K.
0724
Sethna, N.
0007
Sett, A.K.
0393
Sevens, H.
1288
Shafiq, T.
0683, 1289, 1290
Shah, G.M.
0017, 0018, 0398, 0399, 0942, 1291, 1292, 1293
Shah, J.N.
1043, 1044, 1294



Shah, S.R. 1295, 1296, 1297, 1298, 1299, 1300	Sillem, J.A. 1326
Sharma, B.L. 0448	Simon, P.T. 1327
Sharma, D. 0729	Singh P. 1328
Sharma, D.K. 1301	Singh R.K. 0602
Sharma, E. 0248, 0249	Singh, A. 1329, 1365
Sharma, I. 1244	Singh, A.P. 1003, 1026, 1330, 1331, 1332, 1333, 1334, 1335, 1336, 1337, 1338, 1339, 1340, 1341, 1342, 1343, 1344
Sharma, L. 1302, 1303, 1304, 1305	Singh, B. 1345, 1346, 1347, 1375
Sharma, M. 1261, 1262, 1265, 1306, 1307, 1308, 1309, 1310	Singh, D.N. 1348
Sharma, N. 1311	Singh, J. 0476
Sharma, P. 1314	Singh, J.L. 1349
Sharma, P.K. 1312, 1313	
Sharma, R.M. 1088, 1414, 1420	Singh, K.D. 1360
Sharma, S. 0684	Singh, K.G. 1350
Sharma, T.R. 0799, 0910, 0911, 1315	Singh, K.S. 1351
Sharma, V. 0246, 0355, 0677, 1316, 1317, 1318, 1319	Singh, P. 0315, 0494, 0729, 0847, 0848, 0849, 0850, 0851, 0852, 0853, 0854, 0855, 0856, 0857, 1153, 1352, 1353, 1354, 1355, 1356, 1357, 1358, 1359, 1360
Sharma, V.N. 1428	Singh, R. 0754, 0755, 0756, 0757, 0758, 1344, 1361, 1362
Shawl, T. 1320, 1321	Singh, S. 1266, 1314, 1362, 1363, 1364, 1366
Shelley, B.A.G. 1322	Singh, S.R. 1365
Shortt, W.H.O. 1323, 1324	Singh, V. 1375
Shukla, U. 1010	Sinha, A. 1367
Shurpali, S. 1143	Sinha, S. 1368
Shuttleworth, A.R.B. 1325	Sivakumar, K. 0162, 0685, 1369
Siddharth, S. 1140	Sivakumaran 1327
Sidhu, A.K. 1244	Skinner, R.B.



- 1370
Smetacek, V.
1371
Smythies, B.E.
1372
Sngha, H.S.
1373
Snow, D.
1374
Sondhi, A.
1376
Sondhi, S.
1375, 1376
Sood, R.
1030
Soud, R.
0511
Sreenivasan, R.
1377
Sridharan, E.
1378
Srinivasan, U.
1379, 1380, 1381

Srivastava, A.K.
0751, 0752
Srivastava, K.
1263
Stable, R.H.
1382
Stairmand, D.A.
1383
Steffee, N.D.
1384
Stevens, H.
1385, 1386, 1387, 1388, 1389, 1390
Stewart, G.
1391
Stockley, C.H.
1392
Stoliczka, F.
1393
Stresemann, E.
1394
Subedi, T.
0320
Suhail, I.
1174

Sulston, C.
0326
Sultana, A.
0802, 0803, 1395, 1396, 1397, 1398
Sun, Y.-H.
0940, 1443
Sunberg, P.
0065
Sunderraj, S.F.W.
1399
Sushkin, P.P.
1400
Suwal, R.N.
1421
Suyal, B.O.
1401
Swainson, W.
1402
Swan, L.W.
1403, 1404
Sykes, B. R.
1405
Taba, R.
0980, 1406
Taher, S.A.
1407, 1408
Tak, P.C.
0867, 0912, 1409, 1410, 1411, 1412, 1413, 1414, 1415,
1416, 1417, 1418, 1419, 1420, 1431, 1432
Takekawa, J.Y.
0684, 1421
Takpa, J.
0232
Talukdar, B.K.
0026, 1422, 1423
Talukdar, G.
1030
Talwar, R.
1424, 1425
Tambe, S.
1144
Tandon, V.
1098
Tanvi
1367
Tashi, P.
0232
Tewary, P.D.



1426
Thakur, M.L.
0953, 1427, 1428, 1429, 1430, 1431, 1432
Thakur, V.
1428, 1429
Thapliyal, G.S.
1433
Thapliyal, S.
1434
Theobald, W.
1435, 1436
Thirumurthi, S.
1437
Tho, L.W.
1438
Ticehurst, C.B.
1439, 1440, 1441
Tietze, D.T.
0761, 0941, 1152, 1156, 1442, 1443
Tilak, R.
1444
Tiwari, J.K.
0033
Topfer, T.
1445
Tree, I.
1446

Trisal, C.L.
1447, 1448, 1449, 1450
Tu, F.
1366
Tyabji, H.N.
1451
Tyagi, A.K.
0867, 1444
Tytler, R.C.
1452
Umar, M.
1453
Uniyal, V.P.
0162
Unwin, W.A.
1454
Upadhyay, N.
1375
Urfi, A.J.
1455

Vagholikar, N.
0962, 1456
Vaidya, A.
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Van den Berg, A.B.
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Van Gruisen, J.
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Van Tyne, J.
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Van-Orden, C. V.
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Varier, D.
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Vasudevan, K.
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Vaurie, C.
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Veeraswami, G.G.
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Veith, M.
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Velho, N.
1381, 1468
Vidya, S.
0232
Vijay, M.
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Vijayan, L.
0011, 0012
Vinod, T.R.
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Virdi, M.
1471
Viswanathan, A.
1011, 1472
Voelker, G.
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Voous, K.H.
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Vrezes, A.
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Vyas, S.
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Waddell, L.A.
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Waite, H.W.
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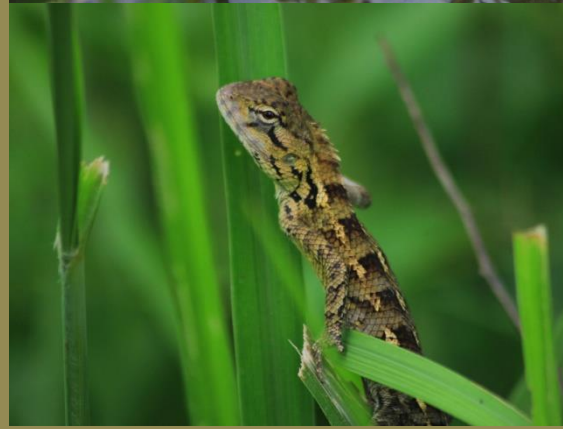
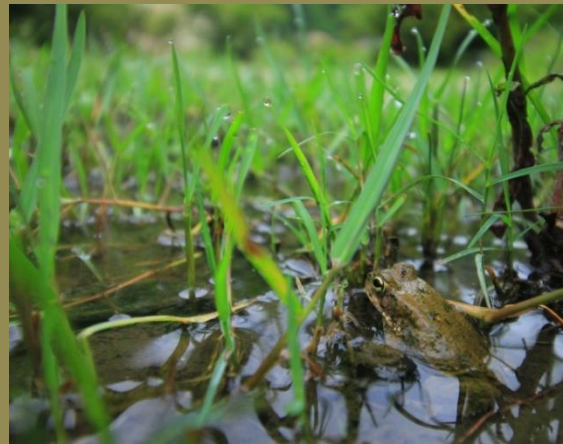


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Walden, A.V.
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Walker, T.
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Walters, M.
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Waltner, R.C.
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Walzthony, D.
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Wan-Tho, L.
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Wange, P.
0511, 0947
Wani, J.A.
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Wani, K.A.
0805
Ward, A.E.
1489, 1490, 1491, 1492, 1493, 1494, 1495, 1496, 1497,
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Warters, H.P.E.
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Wathen, M.L.
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Wayre, P.
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Weir, J.T.
0761, 1506

Wells, D.R.
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Wells, M.P.
1099Wheatcroft, D.J.
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Whistler, H.
1508, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1516,
1517, 1518, 1519, 1520, 1521, 1522, 1523, 1524, 1525,
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White, L.S.
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Whitehead, C.H.T.
1541, 1542
Whymper, S.L.
1543, 1544, 1545, 1546, 1547
Wikelski, M.
1421
Williams, C.
0326, 1548, 1549
Wiltshire, E.P.
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Wright, A.
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Wright, M.D.
1552, 1553
Wright, R.G.
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Wyatt, M.D.N.
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Wynter-Blyth, M.A.
1556, 1557, 1558, 1559
Yahya, H.S.A.
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Yan, B.
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Yobin, K.
1380
Yocom, C.F.
1561
Yom-tov, Y.
1008
Yosef, R.
1089
Young, L.
0459, 0460, 1562
Zafar-ul-Islam, M.
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Zahler, P.
1563, 1564
Zarri, A.A.
1174, 1565
Zee, J.
1166
Zoological Survey of India
1566, 1567

04

Herpetofauna of the Indian Himalayan Region



Bibliography on the Herpetofauna of the Indian Himalayan Region

Naitik G. Patel and Abhijit Das

Introduction

The uplifting of the Himalaya as a result of Cenozoic Indo-Asia collision has greatly influenced biogeography in Asia. Tectonic events resulted in barriers and corridors that influenced dispersal, endemism or transgression. These heterogeneous mountain environments shaped the genetic diversity and evolutionary history of herpetofaunal species (Guo et al., 2011, Agarwal et al., 2014). Being physiologically constrained by temperature, rainfall, and humidity, coupled with limited vagility, herpetofauna are regarded as good model organisms for predicting climate change scenarios (Araujo et al., 2006; Caruso et al., 2014). With increasing anthropogenic pressure coupled with rampant development activities, environmental degradation is at an alarming rate. The rate of warming in the Himalaya is greater than the global average, making it most vulnerable to climate change (Shrestha et al., 2011). Being thermoconformers, herpetofauna thus become one of the most suitable model organism to predict climate change scenarios in the Himalaya.

Diverse herpetofaunal assemblage represents a distinct east to west gradient in the Indian Himalayan Region (IHR). Elevation gradient, high humidity and rainfall coupled with diverse forest type contribute to species richness. Himalayan herpetofauna has been studied from as early as 1818 (Das, 2003). So far 119 reptiles and 108 amphibian species have been recorded from IHR. Of these, 21% of reptiles and 40% of amphibians are endemic to the region. However, even the basic inventory is far from complete. This is evident from the fact that as many as 45 new herpetofaunal species have being added in the last ten years.

About 18% reptiles and 44% of amphibians that are endemic to IHR were categorized as data deficient in IUCN. As the basic documentation is far from complete, inventory seems to be of paramount importance. In the light of current climate change phenomenon, there is a need to identify biological indicator across IHR to delineate measurable responses and to generate information on elevation distribution of species and factors that govern such pattern

Methods

Online databases and scientific journals were searched using the search terms “Himalaya” and name of the six Himalayan States such as “Jammu and Kashmir”, “Himachal Pradesh”, “Uttarakhand”, “Sikkim”, “Arunachal Pradesh” and “West Bengal”. All the information were entered in the Microsoft Excel Spreadsheet and arranged alphabetically to remove any duplication. All the analyses were carried out in Microsoft Excel to determine the trend of research over the decades, the emphasised areas and the knowledge gap. We have classified literature into four broad categories as described below.

Taxonomy and Systematics (Comprises of description of new species, classification, morphological and molecular taxonomy and phylogenetics)

Ecology and behaviour (Comprises of publication on ecology, breeding biology, feeding behaviour, life history and parasitism)

Distribution and Biogeography (Comprises of publication on distribution study, range extension, new locality record and biogeography)

Inventory and checklist (Comprises of checklist, expedition report, state fauna series by Zoological Survey of India, field guide, museum catalogue and collection notes on reptiles and amphibian.)

Results and Discussion

Previously Dutta(1997) published detail account on “Amphibians of India and Srilanka (Checklist and Bibliography). Sen and Mathew (2008) published “Systematic and bibliography of North East India”. Present bibliography on herpetofauna of the Indian Himalayan Region includes 401 unique entries covering a period of almost two centuries, starting from 1825 to 2016. We categorized the articles in three distinct ways: A) The first category was based on parts of six Himalayan States (Jammu and Kashmir, Himachal Pradesh, Uttarakhand, Sikkim, West Bengal-Darjeeling and Jalpaiguri district and Arunachal Pradesh) where the studies were carried out. B) The second category was based on their publication dates, in which the studies were grouped in 10-year intervals from 1830 to 2016; this enabled us to see the research trends and patterns. C) The third category was based on the subject focus of the research; the publications were categorized based on the broad subjects (ecology and behaviour, taxonomy, evolution, conservation and climate change impact) on which the research was carried out.

Geographical Distribution of Publications

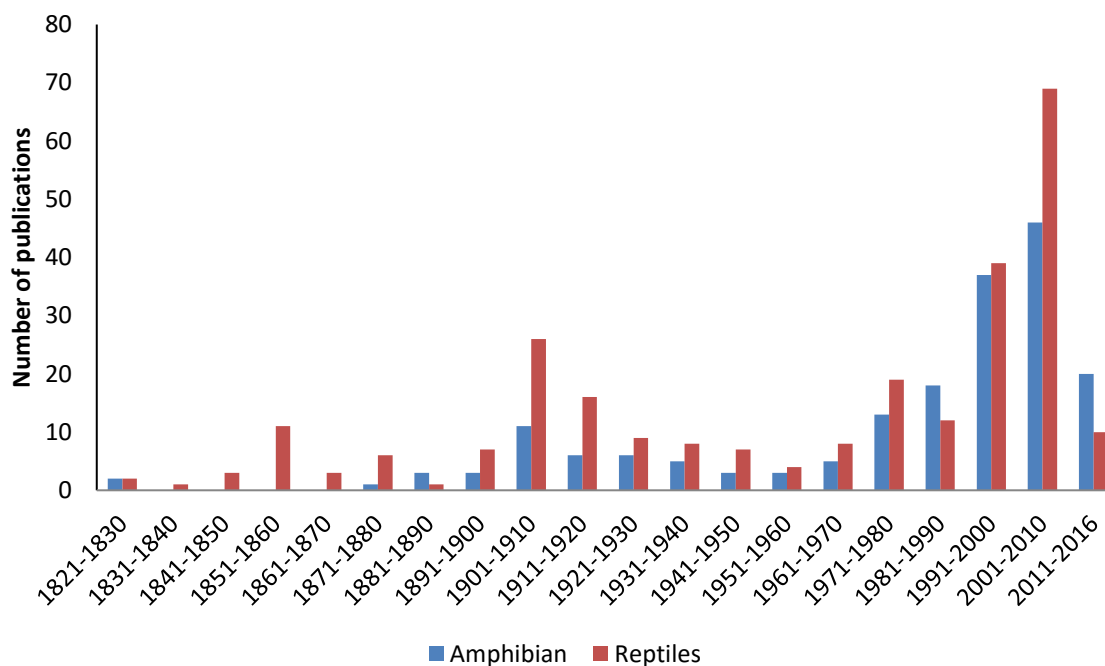
Publications were classified according to the region or state in the IHR where the study took place, wherever possible. The greatest number of studies on herpetofauna has been carried out in the Eastern Himalayan region, compared to the Western Himalaya. Arunachal Pradesh has the greatest number of publications, followed by West Bengal and Sikkim (Table 1). Jammu and Kashmir has the most number of publications in the Western Himalayas, compared to Uttarakhand, while very few studies on herpetofauna have been carried out in Himachal Pradesh.

Table 4.1 State wise distribution of publications

States	Number of Publications
Jammu and Kashmir	22
Himachal Pradesh	5
Uttarakhand	19
Sikkim	23
West Bengal	29
Arunachal Pradesh	32
Others	249

Temporal Pattern of Publications

Literature was classified according to the publication year, and this is represented in a graph by number of publications per decade. Publications date back to 1821, and as recent as 2016 (Fig 4.1). The greatest number of publications were in the 2001-2010 decade, followed by the preceding decade, 1991-2000.


Figure 4.1 Temporal pattern of publications on herpetofauna of the Indian Himalayan Region

Publications by subject

- Taxonomy and Systematics
- Ecology and Behavior
- Distribution and Biogeography
- Inventory and monograph

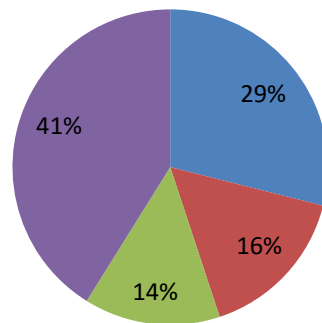


Figure 4.2 Number of publications on herpetofauna of the Indian Himalayan Region in different subject categories

Himalayan herpetofauna has so far received attention largely at the alpha taxonomic level. Major inventory and documentation are by Günther (1860) for Himalayan region, for Uttarakhand (Ray, 1992; Orlov and Helfenberger, 1997; Vasudevan and Sondhi, 2010); Himachal Pradesh (Dutta, 1999), Kashmir and Ladakh (Sahi and Duda, 1985; Gruber, 1981); Sikkim- Darjeeling region (Bhupathy et al., 2009; Pan, 2013); northeast India (Annandale, 1907; Wall, 1908; Whitaker and Captain, 2004; Athreya, 2006; Ahmed et al., 2009; Biju et al., 2010); Nepal Himalaya (Leviton et al., 1956; Schleich and Kastle, 2002).

Studies on the distribution of Himalayan herpetofauna has mainly been in sporadic reports. Few regional studies address elevation distribution patterns for herpetofauna. For example, Waltner (1973, 1974) for herpetofauna of Himalayan region; Chettri (2007, 2010) for reptiles of Sikkim Himalaya, and Das (2011) for snakes of Northeast India. All these observations have revealed that the lower elevation of Himalaya has particularly high herpetofaunal species richness and diversity decreases with increase in elevation. However, mid-elevation is known for unique species richness and regarded as a species replacement zone.

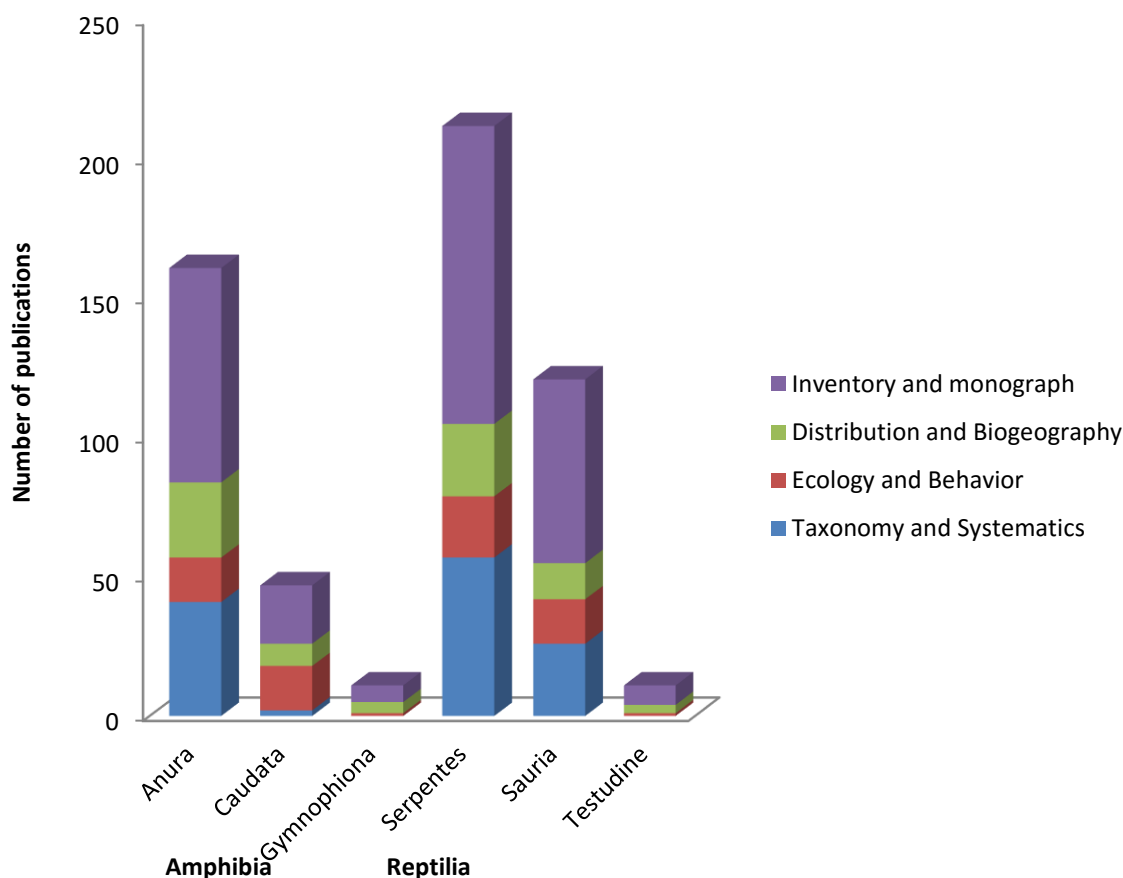


Figure 4.3 Subject wise distribution of scientific literature among Amphibian and Reptilian orders

Aspects of ecology and biology are reported only in few studies such as Waltner (1991), Lal (1991), Bhatnagar (1967) on *Laudakia tuberculata* on aspects of ecology, biology and distribution pattern; Dasgupta (1984, 1994, 1996), Kuzmin et al. (1994) studied ecology and natural history of single representative of salamander in India viz *Tylototriton verrucosus*. Kastle (1998) studied ecology of newly described species *Sitana sivalensis*; Kastle and Schleich (1998) recorded ecological information on endemic *Japalura kumaonensis*; Sharma and Sharma (1976) put some biological observation of perianthropic *Xenochrophis piscator*. Kaul and Duda (1976) reported ovarian cycle of high altitude lizards (Fig. 4.3).

Publications in the bibliography were classified into the following topics – Ecology, Behaviour, Geography, Taxonomy, Evolution, Conservation, Climate Change, and General. The highest number of publications were on Distribution (170), and next highest number were on Taxonomy (157). There were no papers on climate change, and few papers were on evolution (5) or conservation (11) (Fig. 4.4).

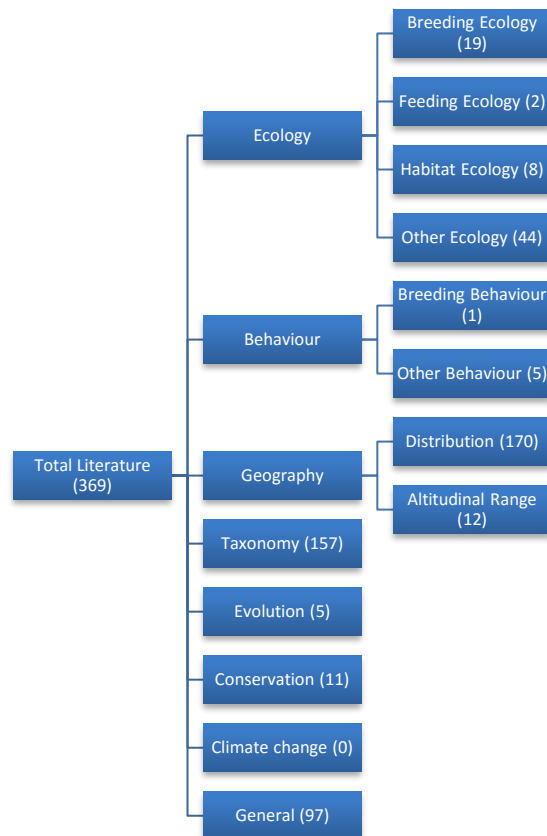


Figure 4.4 Number of publications on the herpetofauna of the Indian Himalayan Region in different subject categories

Research Gaps and Future Priorities

Research priorities in the past have been mainly taxonomy and distribution of herpetofauna, with some publications also focusing on biology. As herpetofauna are particularly vulnerable to climate change and extinction, they make important and ideal indicators for studies on climate change, and this will be of great importance in future research (Table 4.2).

Table 4.2 The key past and future research priorities based on the current assessment

Subject Area	Key past research priorities	Research Gap and future priorities
Ecology and Behaviour	Distribution	Feeding, breeding and habitat ecology
	Biology	
Taxonomy	Classification	Molecular Phylogeny
Evolution	Evolution and dispersal	
Conservation	Status and conservation	Conservation, prevention of conflict
Climate change	-	Herpetofauna as indicators of climate change
		Effect of climate change on ecology, behaviour, distribution, evolution, or extinction of herpetofauna.

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Author Index

Herpetofauna

- Acharji, M.N.
001
321, 322
- Acharya, B.K.
103, 104
Barker, D.G.
041
- Adler, K.A.
186
Barker, P.E.
314, 315, 316
- Aengals, R.
002
Barker, T.M.
041
- Agarwal, I.
003, 004, 005
Bashir, T.
042
- Agrawal, H.P.
006, 218
Bauer, A.M.
003, 047
- Ahmad, N.
007
Berridge, R.
336
- Ahmed, M.F.
008, 009, 115, 116, 256
Bhatnagar, R.K.
043, 044, 045
- Ahmed, S.
010
Bhatt, B.B.
046, 055, 077, 078, 079, 132
- Alley, L.
011
Bhatt, G.
138, 139
- Ananjeva, N.B.
012
Bhattacharya, T.
042
- Anders, C.C.
013
Bhupathy, S.
047, 101, 102, 103, 104, 264
- Anderson, J.
014, 015, 016, 017
Bhutia, P.T.
038, 055, 271
- Annandale, J.
018
Bi, K.
098
- Annandale, N.
019, 020, 021, 022, 023, 024, 025, 026, 027, 028, 029, 030,
031, 032, 033, 034
Biju, S.D.
048, 220
- Aravind, N.A.
337, 338
Birand, A.
255
- Athreya, R.
005, 035, 036
Biswas, M.L.
285
- Bahuguna, A.
037, 038, 039
Blanford, W.T.
049
- Bain, R.H.
167
Blotto, B.L.
167
- Baldauf, R.J.
040
Blyth, E.
050
- Banyal, H.S.
Borah, M.M.



- 051, 052, 053, 054, 056, 057, 058
Borang, A.
055
- Bordoloi, S.
052, 053, 054, 056, 057, 058, 059
- Borkotoki, A.
055
- Bortamuli, T.
059
- Boulenger, G.A.
060, 061, 062, 063, 064, 065, 066, 067, 068, 069, 070, 071, 072
- Bourret, R.
073
- Broadley, D.C.
171
- Brodie, E.D., Jr.
248
- Burbrink, F.T.
074
- Burse, C.R.
270, 271
- Campbell, J.A.
167
- Canseco-Marquez, L.
155
- Cantor, T.E.
075
- Capoor, V.N.
224
- Captain, A.
076, 077, 078, 079, 080, 081, 132, 341, 390
- Cardew, A.
082
- Cazaly, W.H.
083
- Chabanaud, P.
084
- Chakravorty, P.
057
- Chanda, S.K.
085, 086, 087, 088, 089, 090, 091, 092, 093, 257
- Chander, V.
263
- Channing, A.
167
- Chanson, J.
336
- Chaoudhury, N.K.
299
- Chatterjee, K.
094
- Chaudhuri, S.
256
- Chaudhuri, R.C.
095
- Chaudhuri, S.B.
055
- Chauhan, N.P.S.
300
- Che, J.
096, 339
- Chen, H.M.
339
- Chen, L.Q.
097
- Chen, W.
098
- Chettri, B.
047, 099, 100, 101, 102, 103, 104, 254
- Chopra, R.C.
105
- Cole, C.J.
106
- Cope, E.D.
107, 108
- Cox, N.
336
- D'Abreu, E.A.
109
- Dael, E.D.
212
- Dalvi, S.
393
- Daniel, J.C.
110, 111, 112
- Darlington, P.J.
113
- Das, A.
008, 009, 114, 115, 116, 264, 299
- Das, I.
091, 114, 117, 118, 119, 120
- Das, M.
054



Das, S.	299	Eliosa-Leon, H.	155
Dasgupta, B.	119, 129	Ernst, C.H.	156
Dasgupta, G.	010, 283	Evans, G.H.	157, 158
Dasgupta, R.	121, 122, 123, 124, 125, 126, 127, 128, 129, 215	Faivovich, J.	167
Datta, A.	130	Fayrer, J.	159
Dattatri, S.	131	Fei, L.	160
David, P.	132, 133, 360, 361	Feng, S.H.	339
Dawson, W.R.	134	Fenton, L.L.	161
De Sa, R.O.	167	Fitzinger, L.	162
Densmore, L.D.	212	Fotedar, D.N.	163, 164
Deoras, P. J.	135	Frank, N.	165
Deuti, K.	092, 136, 138	Freed, P.	353
Devi, A.	284	Frost, D.R.	166, 167
Dilger, W.C.	137	Fu, J.	098, 168
Dinesh, K.P.	138, 139	Garg, S.	048
Dixon, J.R.	171	Gayen, N.C.	119, 280, 281, 282
Dodsworth, P.T.L.	140	Gharpurey, K.G.	169
Donnellan, S.C.	167	Ghosh, A.K.	093
Drewes, R.C.	167	Gleadow, F.	170
Dubois, A.	054, 091, 141, 142, 143, 144, 145, 146, 250	Golay, P.	171, 391
Duda, P.L.	147, 148, 149, 150, 207, 276, 277	Goodyear, N.C.	172
Dujsebayaeva, T.	151	Grant, T.	167
Dutta, S.K.	009, 115, 120, 152, 153, 154, 196, 299	Gray, J.E.	173, 174, 175, 176, 177, 178
El-Matbouli, M.	013	Green, D.M.	167



- Gruber, U.
179
- Gumprecht, A.
349
- Gunther, A.
180, 181, 182, 183
- Guo, P.
184, 185
- Gupta, S.K.
213
- Gupta, S.S.
262
- Gururaja, K.V.
138, 139
- Haas, A.
167
- Hadded, C.F.B.
167
- Halliday, T.
186
- Helphenberger, N.
252, 354, 355
- Hillis, D.M.
339
- Ho, C.T.
097
- Hoffmann, M.
336
- Hoffmann, R.W.
013
- Hooroo, R.N.K.
279
- Hora, S.L.
034, 187, 188, 189
- Hu, J.S.
096
- Huang, C.
339
- Huang, S.
184
- Hussain, A.
190, 191, 192, 193, 194, 195, 343, 349
- Hussain, B.
299
- Hussbaum, R.A.
167
- Inger, R.F.
196
- Inglis, C.M.
197
- Ingoldby, C.M.
198
- Irwin, D.
339
- Jackman, T.R.
003
- Jaryal, A.
263
- Jayaram, K.C.
199
- Jayaram, K.L.
189
- Jerdon, T.C.
200
- Jha, A.
201, 202
- Jiang, J.P.
160
- Jiang, K.
254
- Jiri, H.
353
- Julaka, J.M.
226
- Kalita, S.N.
058
- Kamei, R.G.
048, 220
- Karanth, K.P.
003
- Kastle, W.
203, 204, 205, 206, 289, 290
- Kaul, O.
207
- Kaul, R.
263
- Kelley, C.
256
- Khan, M.S.
208, 209, 210
- Killips, P.E.
211
- Knight, A.
212
- Koo, M.S.
256



Kuch, U.	Malhotra, S.K.
341	224
Kulkarni, N.	Malnate, E.V.
393	225
Kumar, A.	Mansukhani, M.R.
136, 213, 284	226
Kumar, K.	Manthey, U.
105	214
Kumar, V.S.	Maruthakutti, M.
002	264
Kunte, K.	Mathew, R.
214	133, 227, 228, 229, 230, 231, 232, 233, 298
Kuzmin, S.L.	McCann, C.
215	234
Lal, O.P.	McCarthy, C.
216	171
Lalremsanga, H.T.	Mehta, H.S.
279	235, 236, 237, 344
Lathrop, A.	Mistry, V.
168	238
Lawson, R.	Mistry, V.K.
074	004, 005
Le, K.Q.	Mohapatra, P.P.
350	115
Leviton, A.E.	Moler, P.E.
244	167
Li, F.	Mukherjee, A.K.
339	001
Liu, S.P.	Mukherji, D.D.
339	240
Lothrop, A.	Mukherji, R.P.
097	241
Lu, S.Q.	Murphy, R.W.
184, 217	097, 168, 339
Lynch, J.D.	Murthy, T.S.N.
167	236, 242, 243
Mahajan, K.K.	Musahary, D.
218	011
Mahendra, B.C.	Mushahidunnabi, M.
219	274
Mahji, A.	Myers, G.S.
094	244
Mahony, S.	Nair, M.V.
048, 220	116
Malhotra, A.	Negi, S.S.
221, 222, 223	245
Malhotra, C.S.	Ngo, A.
239	097



- Nieden, F.
246
- Noble, G.K.
247
- Nussbaum, R.A.
248
- O'Donel, H.V.
197
- Ohler, A.
054, 059, 249, 250, 332
- Orlov, N.L.
097, 251, 252, 253
- Padmanaban, P.
039, 213
- Palot, M.J.
002
- Pan, H.
254
- Papenfuss, T.J.
096
- Patel, A.
080, 081
- Pauwels, O.S.G.
361
- Pawar, S.
255, 256
- Pillai, R.S.
257
- Poudyal, K.
042
- Prasad, G.V.
262
- Prashad, B.
258
- Prater, S.H.
259, 260, 261
- Purkayastha, J.
054, 115
- Radhakrishnan, C.
138, 139
- Rage, J.C.
171, 262
- Raina, S.
263
- Rakshit, K.
284
- Ramachandran, A.P.
264
- Ramani, P.
336
- Ramesh, C.
264
- Ramus, E.
165
- Rao
265
- Ravikanth, G.
337, 338
- Raxworthy, C.J.
167
- Ray, P.
194, 266, 267, 268, 269, 345
- Ray, S.
285, 286
- Rizvi, A.N.
270, 271
- Romer, J.D.
272
- Rooijen, J.V.
273
- Roy, D.
274
- Roy, P.
195, 275, 346
- Ruf, M.
354
- Ryabov, S.V.
253
- Sahi, D.N.
147, 148, 149, 150, 276, 277
- Saikia, U.
278
- Sailo, S.
279
- Sang, N.V.
253
- Sankar, H.K.
226
- Sanyal, D.P.
280, 281, 282, 283, 287
- Sarania, B.
284
- Sarkar, A.K.
285, 286, 287
- Sarkar, S.
256



- Sathyakumar, S.
042
- Satsangi, P.P.
288
- Schatti, B.
171, 354, 355
- Schleich, H.H.
204, 205, 206, 289, 290
- Schmidt, C.
354
- Sclater, W.L.
291, 292, 293, 294
- Seimon, A.
295
- Seimon, T.A.
295
- Sekar, A.G.
296
- Sen, N.
230, 231, 232, 233, 297, 298
- Senevirathne, G.
048
- Sengupta, S.
011, 115, 220, 299
- Sethy, J.
300
- Shah, K.B.
206, 349
- Shanna, R.M.
278
- Shanthakumar, B.
264
- Sharma, B.D.
243, 301, 302, 303, 304, 305, 306, 307
- Sharma, K.K.
058
- Sharma, O.K.
278
- Sharma, P.K.
116
- Sharma, R.C.
308, 309, 310
- Sharma, S.W.
311
- Sharma, T.
306, 307
- Shaw, G.E.
312, 313, 314, 315, 316
- Shebbeare, E.O.
197, 312, 313, 314, 315, 316
- Sheth, C.
393
- Shiryaev, K.A.
253
- Shresta, T.K.
317, 318, 319, 320
- Singh, V.
321, 322
- Sinha, B.
057
- Smirina, E.M.
215
- Smith, H.M.
171
- Smith, M.A.
323, 324, 325, 326, 327, 328, 329, 330
- Soman, P.W.
331
- Somorjai, I.
097
- Sondhi, S.
332, 357
- Sony, R.K.
264
- Stoliczka, F.
333, 334, 335
- Stuart, S.N.
336
- Subba, B.
337, 338
- Subba, J.B.
042
- Sun, Y.B.
339
- Sur, S.
281, 282
- Talukdar, S.K.
283
- Tasnim, R.
209, 210
- Tate, R.
072
- Thapa, K.
202
- Theobald, W.T.
340



- Theophilus, E.
341
- Thomas, A.
048
- Thorpe, R.S.
221, 222, 223, 239
- Tikoo, R.
164, 342
- Tilak, R.
343, 344, 345, 346
- Tillack, F.
115, 238, 341, 347, 348, 349, 350
- Toriba, M.
171, 351
- Travers, W.L.
197
- Tu, X.L.
339
- Tuniyev, B.S.
012
- Uetz, P.
352, 353
- Uniyal, D.P.
237
- Utiger, U.
354, 355
- Van Rooijen, J.V.
356
- Vasudevan, K.
357
- Venning, F.E.W.
358, 359
- Verma, A.K.
150
- Vogel, G.
238, 254, 273, 356, 360, 361
- Wake, D.B.
096
- Wall, F.
072, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382
- Wallach, V.
383
- Waltner, R.C.
384, 385, 386, 387, 388
- Wang, J.
339
- Wang, K.
254, 284
- Wang, L.
339
- Warrell, D.A.
391
- Wheeler, W.C.
167
- Whitaker, R.
389, 390
- Wilkinson, M.
167
- Wu, D.D.
339
- Wuster, W.
391
- Xiang, X.Y.
339
- Xiong, Z.J.
339
- Yanez-Gomez, G.
155
- Yang, D.
248, 254, 392
- Yang, D.T.
217
- Yang, H.M.
339
- Yang, M.M.
339
- Ye, C.Y.
160
- Young, B.
336
- Zambre, A.
393
- Zhang, B.L.
339
- Zhang, F.J.
185
- Zhang, G.J.
339
- Zhang, L.
254
- Zhang, Y.P.
096, 339
- Zhao, E.M.
184, 394
- Zhao, H.
184
- Zhong, L.
339
- Zhou, L.
339
- Zhou, W.W.
096, 339
- Zhu, C.L.
339
- Ziegler, T.
350
- Ziswiler, V.
354

05

Fishes of the Indian Himalayan Region



Bibliography on Fishes of the Indian Himalayan Region

Aashna Sharma, Vineet Kumar Dubey, Jeyaraj Antony Johnson and Kuppusamy Sivakumar

Introduction

The rivers that originate in the Himalaya provide sustenance, livelihoods and prosperity to millions of people living in India and neighbouring countries. Freshwater fish diversity in the Himalaya is structured by diverse geomorphic conditions thermal regimes and rapid water current. These combination factors have given rise to unique composition of fish species assemblages in Himalaya. While Himalaya can be considered as key landscape for conservation of unique cold water fish diversity of world but it is recognised that the fish species and their aquatic systems are fast declining. Maintaining the extent and ecosystem functionality of the aquatic ecosystems in the Himalaya and preventing any further retrogression is, therefore, important as a strategy to address climate change. In this context, a bibliographical review was carried out with available research publications to understand research gaps in fish ecology and conservation in Himalaya. All the available relevant published information related this subject were collected through an in-depth search of various sources, viz. international databases, CD-ROMs, the WII Library and Documentation Centre and libraries of various research institutes in India.

Knowledge of occurrence of fish in India dates back to three millenium B.C., though the first attempt on the documentation of Himalayan fishes were made by Hora (1937) on certain aspects of the torrential fish distribution and zoogeography, which were appreciably continued by Menon (1962) and Jayram (1977) and then several documentations of fish diversity of Himalayas till date (Sehgal 1999; Karmakar 2000; Sundar and Joshi 2002; Bhatt 2016, Nautiyal 2016). Presently, the Indian Himalaya is known to be home for around 266 fish species, which is about 27% of the India's total freshwater fish diversity including vast variety of threatened, migratory and endemic species (Nautiyal, 2005, FishBase 2016). This uniqueness in Himalayan freshwater fishes pertaining to different geomorphic conditions, changing thermal regimes and fast water current, which are drained by 19 major rivers. There are multitudes of factors, which are responsible for the inimitable distribution of fishes in the Himalayas. Their specialized morphology enables them to inhabit in the torrential rivers and streams of the Himalayas, earlier recognized by Menon (1954) into six major groups: (a) fish with powerful muscular cylindrical bodies inhabiting the bottom water layers in deep fast current, : *Schizothoracines* and the introduced *trouts*; (b) fish with adhesive organs cling to exposed surfaces of bare rocks in slower current, : *Garra*, *Glyptothorax* and *Glyptosternum*; (d) fish with special attachment devices inhabiting among pebbles around near shore areas, : the loaches *Noemacheilus*, *Botia* and *Amblyceps*; (e) fish with highly modified oval bodies and mouth, gills and fins able to cling to surfaces of bare rocks: *Balitora* (c) fish inhabiting among pebbles and stones to avoid the strong current: *Crossocheilus*; and (f) fish without any prominent modifications dwelling in shallow, clear

cold waters in the foothills: *Labeo*, *Tor*, *Barilius* and *Puntius*. Later, Sehgal (1988) identified numerous fish zones on the basis of dominant fish species and the hydrographical features.

Albeit a long history of studies on fishes within the Indian Himalaya Region (IHR) (Hora 1937), there is lack of an exclusive platform where all the information can be assembled and make it readily available for further use. Presently, the central (Nepal) Himalaya was known to be richest (181 species) in fish diversity, followed by the western (167 species) and the eastern Himalaya (159) however the survey work is little comprehensive and there are several areas which remain unexplored and needs to be updated. Moreover, the current unpredictability of estimates of fish species diversity and their ecology within the IHR makes it nearly certain that the current knowledge is inadequate. From the fisheries viewpoint, the Himalayan rivers Indus, Ganga and Brahmaputra are of great importance to livelihoods and economies are now been embark upon an unprecedented scale of development. Further, the current anthropogenic threats and their consequences may likely to be complicated in future by global climate change leading to rising temperatures and shifts in runoff and precipitation patterns which may pose significant extinction of fish fauna already susceptible in the Indian Himalayan Region. Therefore, there is an urgent need of robust and readily available information on several aspects of fishes in IHR to cope up with new challenges. To close this information gap, as a first step; a comprehensive assessment was made in this article by collecting all the scientific literature on the freshwater fish fauna of IHR and categorizing the trend of scientific development and knowledge gap till date.

Method:

All the available relevant published information related this subject were collected through an in-depth search of various sources, viz. international databases, CD-ROMs and the WII Library and Documentation Centre. Further, the literature review was undertaken online by browsing a total of 75 keywords related to different aspects of fishes and adding the term Himalaya with names of six Himalayan States such as “Jammu and Kashmir”, “Himachal Pradesh”, “Uttarakhand”, “Sikkim”, “Arunachal Pradesh” and “West Bengal”. All the information were entered in the Microsoft Excel Spreadsheet and arranged alphabetically to remove any duplication. All the analyses were carried out in Microsoft Excel to determine the trend of research over the decades, the emphasised areas and the knowledge gap. This review was restricted only to those research articles published in English that too in peer reviewed and online journals. Therefore, there is a scope for updating this bibliography in future with more publications that are either in the form of grey literature or not available online.

Result and Discussion

Temporal pattern of studies of fishes in Himalaya:

The first study on fishes of Himalaya was reported from 1785. A total of 812 publications related to multitude of studies on fishes in the IHR beginning from 1785 to 2016 were collected and compiled (Fig. 1). Although the studies on fishes in India date back to three

millennium B.C. (Hora 1956) but the first researcher on Himalayan fishes was Bloch (1785) who could collect and describe few fish specimen from Himalaya. The numbers of studies of fishes from IHR have started growing after 1930s onwards and it was at peak during 1991 to 2000 and almost 21% of the studies out of the total literature collected was recorded during this period (Fig. 5.1).

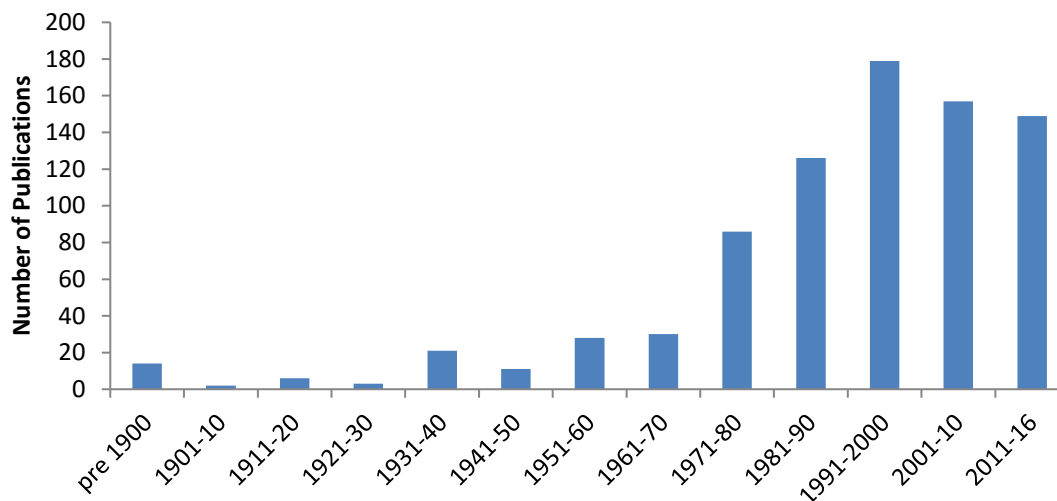


Figure 5.1 Temporal pattern of publication on fishes in the Indian Himalayan Region

Subject focus of publications:

Considering the range of study areas available on the fishes of IHR and the research trend over the centuries, all the literature were classified into 12 broad subject categories (Fig. 5.2). All the collected literature were grouped into wide ranging themes such as biodiversity and distribution, biology, ecology, evolution, taxonomy, disease, fish farming, aquatic conservation management, population biology, molecular taxonomy/population genetics, climate change/altitudinal distribution and other aquatic taxa. Some of the publications collected from the browsing, for instance was devoted to range of subjects such as fish biology, conservation, distribution in a single study as such these publications were manually scrutinized and added in the relevant subject categories.

The number of publications on the fishes of IHR increased with time broadly focussed on taxonomy, biogeography and evolution particularly during 17th to 18th century in the beginning to range of subjects viz. fish diversity, distribution, disease and ecology etc in the later time intervals (Fig. 5.3). Out of the total publications, approximately 22 % and 20% dealt with Taxonomy and biodiversity/distribution respectively and only 1% to 3% studies were related with aquatic conservation, molecular, population and climate change related studies (Fig. 5.3).

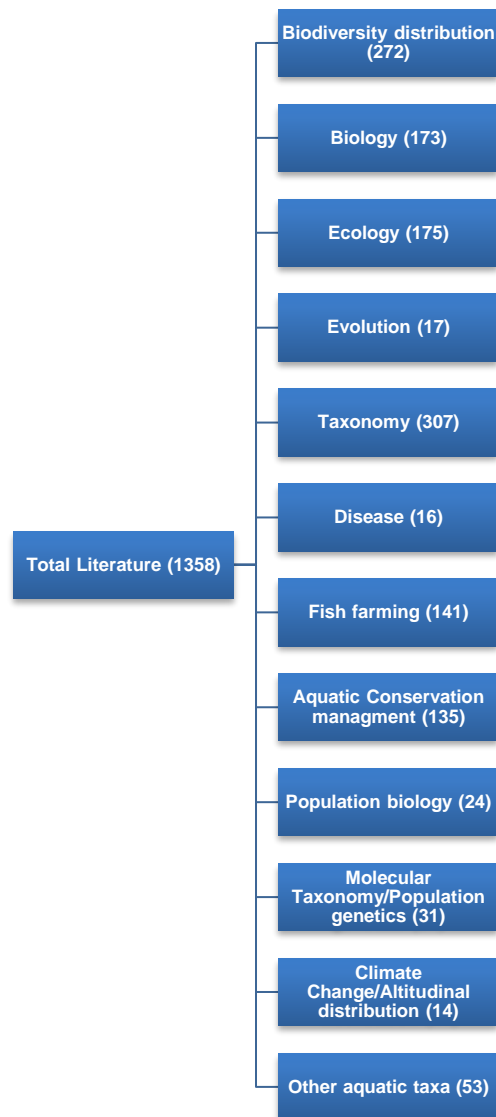


Figure 5.2 Number of publications in different broad subject categories

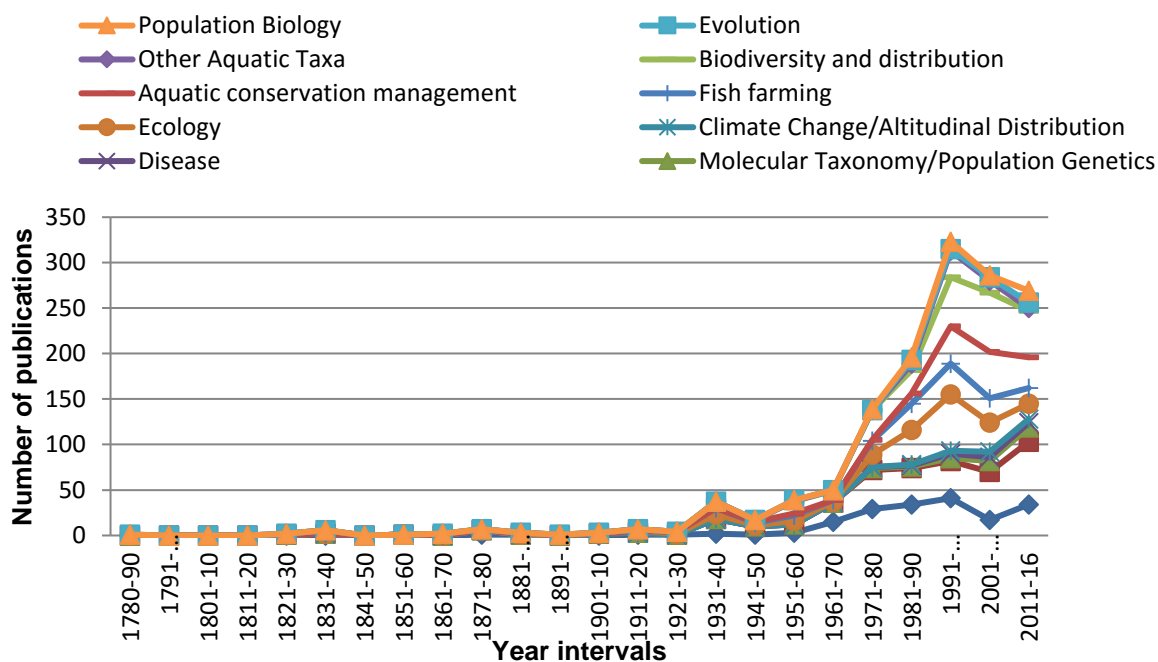


Figure 5. 3 Trend of publications under different broad categories in different year intervals

Spatial distribution of fish researches across Himalaya:

A total of six Himalayan States viz. Jammu and Kashmir, Himachal Pradesh, Uttarakhand, Sikkim, Arunachal Pradesh and hilly regions of Assam and West Bengal were taken into account for listing the available literature on fishes so far. Among the selected states Uttarakhand was recorded highest with 582 publications followed by hill regions of Assam & West Bengal (184), Jammu & Kashmir (172) and only 25 publications could be recorded from the Sikkim state (Fig. 5.4). This distribution of publication were then categorized into 12 broad subject and studies like taxonomy, biology and biodiversity were recorded to be the major focus areas whereas studies like ecology, evolution, climate change related studies were remain neglected in all these states (Fig. 5.5).

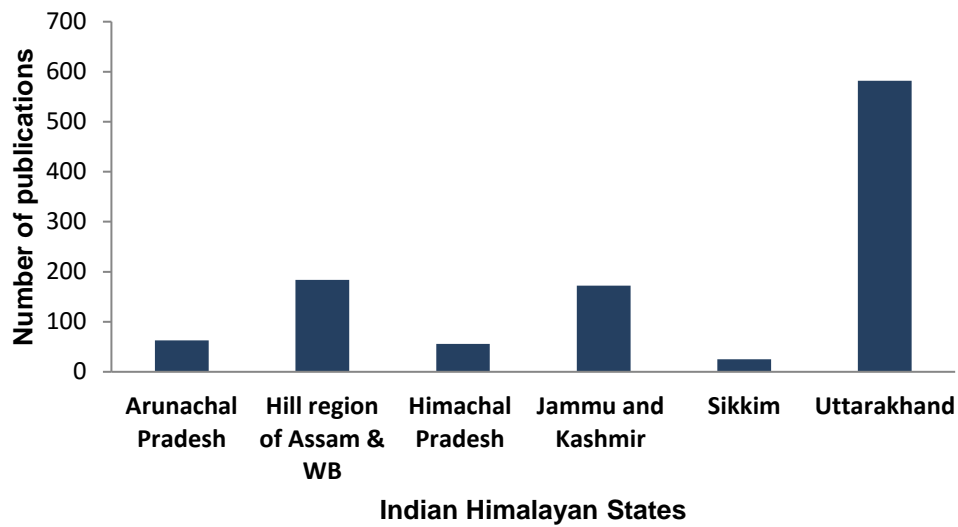


Figure 5.4 Number of publications in the Indian Himalayan states

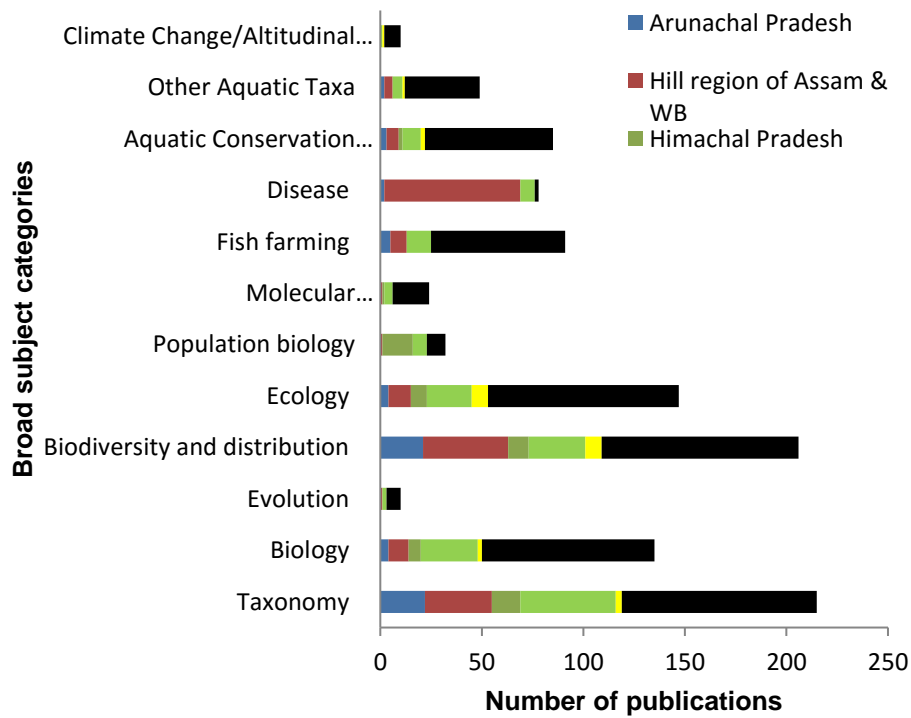


Figure 5.5 Trends in publications in the Indian Himalayan states under different broad subject categories

Research gaps and future priority

Fishes in the Indian Himalayan Region has always been an attraction for ichthyologists worldwide that reflected here in a vast variety of studies over last two decades. However, there are still several research gaps which need to be identified in order to set the future priorities for betterment of conservation efforts. In this view, a range of broader subject areas were assessed based on the current information collected in this study and the key past research priorities among different study areas were investigated to find out the research gaps (Table 1).

A range of broader subject areas identified here with less publication output clearly revealed the less research investment in the particular subject which required special attention. Looking after the current challenges which the IHR is facing in terms of severe anthropogenic disturbances and upcoming climate change effects which are more critical for freshwater fishes of this region, studies on the habitat requirements, ecology and biology of freshwater species is essential to fill this information gap. Most of the information available for IHR is based on taxonomy, species distribution and biodiversity studies that were scattered and old. Many of the areas are still unexplored that need to be surveyed to determine current threat status of freshwater fishes. The proper taxonomic revision of the freshwater fishes within the IHR is also required to discourage taxonomic ambiguities. All this information can only be achieved with a proper assessment and field survey.

Table 5.2 The key past and future research priorities based on the current assessment

Subject Area	Key past research priorities	Research Gap and future priorities
Biodiversity and distribution	Cataloguing, distribution pattern, abundance in certain localities	Unexplored areas, taxonomic ambiguities, lack of robust methodology
Biology	Life history parameters, Age and growth, fecundity, maturity periods, breeding	Focused mostly on economic important species, lack of understanding on population health management and species recovery. No studies on migration pattern of threatened migratory species
Ecology	Fish assemblage patterns, Physiochemical parameters	Limited studies, Lack of understating on priority area identification. No information about the environmental flow required to sustain the normal life history of fishes.
Evolution	Morphological characterization, geographic distribution and similarities	Lack of readily available historical records and data
Taxonomy	Redescriptions, new records, systematic accounts	Taxonomic ambiguities, proper exploration
Disease	Morphological anomalies, parasites, diet and toxicological studies	Mainly focussed on economic important species
Fish farming	Captive breeding, hatchery/pond maintenance, ranching, fish production	Motivated towards exotic species, less attention to native species
Aquatic Conservation management	Protected area management, anthropogenic threats and threat status	Inadequate scientific data on threats, regional species distribution and threat categories
Population biology	Phenotypic variations, stock identification, comparative life history traits	Lack of understanding on suitable stock characterization, conservation and recovery programmes
Molecular Taxonomy/Population Genetics	Mitochondrial, microsatellite DNA based studies, DNA barcoding	Needed to be linked with ecology, evolution and conservation of threatened species
Climate Change/Altitudinal Distribution	Studies based on altitudinal distribution, shifts in distributions	Freshwater ecosystems largely neglected, Lack of suitable reference data

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Author Index

Fish

- Acharjee, M.L.
001, 002, 003, 004
- Agarwal, N.K.
005, 006, 007, 008, 009, 010, 028, 703, 707
- Agarwal, S.K.
691
- Ahlander, E.
366
- Ahmad, N.
247
- Ahmed, M.
109
- Aiyappa, P.
165
- Ajmair, T.A.Q.
099
- Akhtar, M.S.
011, 012, 013, 641, 643, 644
- Akhtar, N.
014, 015, 808
- Akhtar, S.
717
- Ali, S.
016, 047, 048, 050, 189, 601, 726, 727, 728
- Allen, D.J.
017
- Anganthoibi, N.
018
- Anputhas, M.
729
- Arambam, R.
665
- Aran, K.
115
- Arjamand, S.
019
- Armantrout, N.B.
020
- Arora, R.
021, 571
- Arora, S.
326
- Arshad, N.
811
- Arunachalam, M.
022
- Ashfaq, M.
019
- Ashok, K.
023
- Atkinson, E.T.
024
- Atkore, V.M.
025, 026, 027
- Ayyoade, A.A.
028
- Badola, S.P.
029, 030, 031, 032, 033, 034, 035, 343, 344, 345, 694, 695
- Badoni, A.K.
040, 084
- Badoni, K.
036, 470
- Baduni, V.
703
- Bagra, K.
037, 038, 386
- Bahuguna, A.K.
169, 170
- Bahuguna, M.
039, 666, 667, 789
- Bahuguna, P.
295
- Bahuguna, S.N.
040, 041, 084, 468, 696, 697, 789
- Bajubaruah, K.M.
067
- Bakalial, B.
042
- Bala, N.
043
- Balasubramaniam, H.



109	062, 063
Bali, J.P.S.	Bhandari, M.S.
179	054
Bali, R.K.	Bharti, P.K.
337	405
Balkhi, M.A.	Bhasin, M.K.
114	794
Balkhi, M.H.	Bhaskar, A.
044, 065	073
Baloni, S.P.	Bhat, A.A.
196	064
Baniyal, H.	Bhat, F.A.
720	065
Bantwan, B.	Bhatia, S.B.
579	589
Banyal, H.S.	Bhatiya, S.
045, 046, 285	360
Barat, A.	Bhatnagar, G.K.
013, 016, 047, 048, 049, 050, 051, 052, 102, 189, 587, 601, 726, 727, 728	066
Barat, S.	Bhatt, B.P.
001, 002, 003, 004	067
Barman, D.	Bhatt, D.S.
408	068, 069, 070, 071, 072
Barman, R.P.	Bhatt, J.P.
053	036, 073, 074, 075, 076, 077, 078, 079, 080, 081, 351, 352, 353, 470, 471, 472
Barot, H.O.	Bhatt, S.D.
264	506, 516
Bartwal, M.	Bhattacharjee, M.J.
054	387
Baruah, D.	Bhola, D.V.
042, 637	019
Baruah, S.	Bhowmick, S.
087	633
Basade, Y.	Bhutia, P.T.
055, 056, 328	448
Bashir, A.	Bhutiani, R.
057, 058, 059, 060, 643, 644	346, 347
Basistha, S.K.	Bhuyan, R.N.
192	082
Bax, P.K.	Bilgrami, K.S.
783	083, 361
Beavan, R.	Bisht, B.
061	084
Bhagat, M.J.	Bisht, B.S.
368	057, 058, 059, 060
Bhagat, N.	Bisht, H.C.S.



- 085
Bisht, I.
691
Bisht, K.L.
086
Bisht, R.
085

Bisht, R.C.S.
296, 298
Bisht, Y.
069
Biswas, P.
408
Biswas, S.
087
Biswas, S.P.
042
Bleeker, P.
088
Bloch, M.E.
089
Boote, P.
090
Bora, D.
192
Borah, S.
042
Borana, K.
091
Bordoloi, S.
118, 763
Borgohain, A.
206
Bower, S.D.
203
Britz, R.
092, 800
Burrard, S.C.
093
Capoor, V.N.
397
Chacko, P.I.
094
Chadhary, R.P.
095
Chadwick, M.A.
204, 206, 209, 210

Chakrabarty, M.
096, 097
Chakraborty, C.
446
Chalai, R.S.
098
Chalkoo, S.R.
099
Chanda, S.K.
100
Chanda, T.
101
Chandola Saklani, A.
028
Chandra, R.
325, 805
Chandra, S.
102, 103, 423, 424, 425, 428, 541
Changsan, K.
192
Chatterjee, P.
384
Chaturvedi, S.K.
104
Chaudhuary, S.
105, 752
Chaudhuri, B.L.
106, 107, 108
Chaudhury, S.
800
Chauhan, P.
667
Chauhan, R.S.
397
Chauhan, U.K.
689, 706
Chetri, K.
272, 274
Chishti, M.Z.
809
Chong, C.K.
109
Chopra, A.K.
110, 111, 112
Choudhury, M.
213
Ciji, A.
011, 012



Conway, K.W.	Dasgupta, M.
800	137, 138, 139, 140, 141, 142
Cooke, S.J.	Dass, S.M.
203	733
Cordington, K.	Datt, S.P.S
113	143
Dahanukar, N.	Datta, M.J.S.
205	144
Daimari, P.	Datta, S.
213	145
Dam, D.	Datta, S.P.S.
448, 449	403
Dandekar, P.	Day, F.
205	146, 147, 148, 149
Daniel, B.A.	Dayal, R.
017	390
Danylchuk, A.J.	De, B.
203	113
Dar, S.A.	De, K. C.
019, 114	150
Darshan, A.	Delling, B.
115, 797	366
Das R.C.	Desai, A.Y.
116	019
Das, B.K.	Desai, V.R.
117	151, 152, 153
Das, D.	Dey, S.
037	119, 572
Das, D.N.	Dey, S.C.
038, 115, 324, 386, 448, 590	154, 155, 156, 157, 158, 159, 160, 161, 162, 332, 448, 450, 451, 620
Das, M.	Dhar, B.
160	387
Das, M.K.	Dhasmana, P.
118, 119, 120, 633	483
Das, P.	Dhu, S.
121, 122, 123, 599, 600	163
Das, R.C.	Dilger, V.C.
124	164
Das, S. M.	Dimri, N.
125, 126, 127	571
Das, S.C.	Dinesh, K.
783	165
Das, S.H.	Dobriyal, A.K.
128	166, 167, 168, 169, 170, 171, 172, 173, 345, 371, 694, 695, 698, 701, 703
Das, S.M.	Dogra, R.K.
129, 130, 131, 132, 133, 134, 135, 136, 536, 537, 538	268
Das, T.M.	
361	



- Doley, A.K.
117
- Dollo, M.
174
- Drake, N.
204
- Dubey, G.P.
175
- Dubey, V.K.
503, 595
- Dunsford, H.S.
176
- Dutta, A.
219
- Dutta, A.K.
177
- Dutta, R.
115, 178
- Dutta, S.P.S.
179, 180, 181, 212, 401, 402
- Edds, D.R.
182, 183
- Esmaeili, H.R.
291
- Everard, M.
184
- Fahabi, I.A.
264
- Fang, F.
366
- Farooq, A.G.
185
- Fayaz, F.A.
091, 809
- Fofandi, M.D.
019
- Fotedar, I.D.
131
- Gael, C.
587
- Gangaiamaran, P.
570
- Ganpati, S.V.
094
- Gautam, A.
186, 347, 703
- Geetakumar, K.
798
- Geetakumari, G.
187
- Ghosh, D.
082
- Ghosh, S.K.
188, 387
- Ghosh, T.K.
273, 274
- Goel, C.
048, 189
- Gogoi, B.
115
- Gond, I.
705
- Gopal, B.
190, 191
- Gopalakrishnan, A.
270, 378, 689
- Goswami, B.S.
213
- Goswami, M.
376, 689
- Goswami, U.C.
192
- Goswamic, M.
505
- Govind, B.V.
193
- Grover, S.P.
194, 195, 196, 576
- Grumbine, R.E.
197, 510
- Gulgani, H.K.
198
- Gunther, A.
199, 200
- Gupta, A.
201, 202
- Gupta, N.
203, 204, 205, 206, 207, 208, 209, 210, 639
- Gupta, P.
211
- Gupta, S.
645
- Gupta, S.C.
179, 181, 212, 322
- Gupta, V.K.



- 638
Gurumayum, S.D.
213, 755
Gurung, T.B.
548, 671
Gusain, M.P.
426
Gusain, O.P.
214, 320, 426, 579, 580
Haldar, R.S.
016, 407, 488, 600
Hamilton, F.
215
Haque, N.
216, 217
Hassan, N.
218
Hatter, S.J.S.
546
Hayden, H.H.
093
Hazarika, A.K.
219
Heckel, J.J.
220
Holdsworth, R.L.
221, 222
Homechaudhuri, S.
096, 097
Hora, S.L.
223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234,
235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246,
247, 248, 249, 250, 251, 252, 253, 254
Hornell, J.
255
Hossain, M.A.
554
Husain, A.
256, 257, 258, 259, 260, 261, 372, 775, 776, 777, 778, 779,
780
Hussain, M.G.
554
Hutchison, E. G.
262
Imam, A.R.H.B.
263
Imtiyaz, J.
264
Ishtiaq, A.
- 447
Islam, S.M.
265
Jagtap, H.S.
266
Jain, S.
103
Jan, D.
810
Jan, M.
267
Jan, N.A.
268
Jan, U.
064, 267
Javed, M.N.
433
Jayaram, K.C.
269, 445, 627
Jena, J.K.
270
Jha, B.R.
271, 573
Jha, G.N.
598, 599
Jha, K.K.
272, 273
Jha, V.C.
273, 274
Jhan, K.K.
274
Jhingran, A.G.
750
Jhingran, V.G.
275, 276
Jindal, R.
277
Johal, M.S.
278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289,
290, 291, 292, 473, 757, 758, 759, 760, 761
Johnsingh, A.J.T.
026, 027, 293
Johnson, J.A.
570, 571, 639
Joseph, K.M.
294
Joshi, A.
295



- Joshi, B.D.
296, 297, 298
- Joshi, C.B.
299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310,
311, 312, 313, 443, 559, 684, 699, 709, 746, 748
- Joshi, K.D.
123, 314, 315, 316, 390, 726, 727
- Joshi, M.L.
539
- Joshi, N.
298, 317
- Joshi, P.C.
317, 318
- Joshi, S.C.
691
- Joshi, S.N.
319
- Joshi, V.
576
- Julka, J.P.
021
- Juneja, D.P.
781
- Juyal, C.P.
320, 580, 581
- Jyoti, M.K.
321, 322, 323, 403
- Kachari, A.
115
- Kadu, K.
038, 187, 324
- Kalekar, V.
325
- Kanagavel, A.
205
- Kansal, M.L.
326
- Kanwal, B.P.S.
327
- Kapila, R.
055, 328, 329, 330
- Kapila, S.
055, 328
- Kapoor, D.
390
- Kapoor, V.
411, 412
- Kapur, A.P.
331
- Kar, D.
332, 333
- Karamchandani, S.J.
334
- Karga, J.
792
- Karmakar, A.K.
335, 336
- Karunakaran, M.
067
- Kataria, G.
184
- Kathirvelpandian, A.
378
- Kaul, B.K.
337
- Kaul, V.
338, 812
- Kaur, H.
143
- Kaur, J.
761
- Khajuria, B.
339
- Khan, H.A.
211, 340
- Khan, M.A.
341, 342
- Khan, M.N.
554
- Khanna, D.R.
005, 343, 344, 345, 346, 347
- Khatri, K.
573
- Khudabaksh, A.R.
348, 349
- Khulbe, R.D.
350
- Khyriam, D.
621
- Kingra, J.S.
279
- Kishor, B.
036, 351, 352, 353, 470, 471, 472
- Koh, L.P.
512



- Kosygin, L.
354, 800
- Kotnala, C.B.
169
- Kottelat, M.
355, 356, 357, 358
- Kour, H.
179, 180, 359
- Kour, R.
360
- Kouser, U
640
- Krishnamurthi, C.R.
361
- Kujwal, S.S.
295
- Kuldeep, K.L.
444
- Kulkarni, C.V.
362, 363, 364, 365, 501
- Kullander, S.O.
366
- Kumar, A.
449, 789, 790
- Kumar, K.
174, 309, 367, 368, 369, 589
- Kumar, N.
169, 170, 370, 371, 421, 700, 708
- Kumar, P.
016, 098, 295, 372, 488
- Kumar, R.
016, 050, 057, 059, 062, 063, 189, 277, 705, 706
- Kumar, R.S.
503
- Kumar, S.
710, 711, 712, 715
- Kumar, V.
511, 794
- Kundu, S.
387
- Kunjwal, S.S.
085
- Kushwaha, B.
705, 706
- Lai M.S.
482
- Lai, M.B.
373
- Lai, M.S.
374, 469, 474, 475, 476, 477, 478
- Lakra, W.S.
375, 376, 377, 378, 503, 505, 540, 594, 595, 689, 705, 706, 799
- Lal M.S.
479
- Lal, K.K.
377
- Lal, M.B.
379, 380, 381, 382, 383, 384
- Lal, M.S.
480, 481
- Lall, G.W.
385
- Laskar, B.A.
038, 386, 387
- Lepcha, R.F.
446
- Lipton, A.P.
188
- Lokeshwor, Y.
388
- MacDonald, A.S.J.
389
- Maclanline, J.
092
- Madhwal, B.P.
110, 111
- Mahadani, P.
387
- Mahanta, P.C.
011, 012, 051, 315, 390, 391, 392, 488, 504, 541, 600, 637, 710, 711, 712, 726, 727, 728
- Mahanta, P.E.
052
- Mahapatra, B.K.
393, 795
- Mahdi, M.D.
065
- Maheshwari, G.
719
- Mainwarings, E.G.
394
- Maitland, P.S.
395
- Malakar, A.K.



- 505
Maletha, A.
571
Malhotra, S.K.
396, 397
Malhotra, Y.R.
323, 398, 399, 400, 401, 402, 403
Malik, D.S.
404, 405, 490
Malik, G.M.
406
Malkani, K.L.
310
Mallik, S.K.
407
Mandal, B.K.
393, 795
Mandal, S.C.
408
Mani, I.
706
Mani, M.S.
409
Manickam, R.
022
Manish, K.
074, 512
Mann, G.S.
410
Manorama, M.
572
Mathur, R.P.
361, 411, 412

Mathur, V.B.
204, 205, 206, 207, 208, 209, 210, 571
Matura, R.
051, 052, 102
Mayden, R.L.
022
Mazid, A.M.
554
McClelland, J.
413
Mehrotra, S.N.
502
Mehta, H.S.
414, 791

Mehta, M.
645
Menon, A.G.K.
248, 249, 415, 416, 417, 418, 419, 420, 421
Menon, M.J.V.S.
422
Michael, R.G.
201, 202
Mir, F.A.
423, 424, 425, 426, 427, 428, 429, 432
Mir, J.I.
050, 057, 059, 060, 103, 423, 424, 425, 426, 427, 428, 429,
430, 431, 432, 541, 642, 643, 644, 717
Mirza, M.
811
Mirza, M.R.
433
Mishra, A.
634
Mishra, D.P.
329, 330
Mishra, K.S.
250, 434, 435, 436
Misra, M.
437, 482
MOEF
438
Mohan, D.
293
Mohan, M.
056, 439, 440, 441, 442, 443, 559, 600, 748
Mohan, V.C.
640
Mohindra, V.
377, 444

Moitra, S.K.
132
Molur, S.
017
Mondal, M.L.
119
Moog, O.
669
Mori, K.
671
Motwani, M.P.
445



Mukherjee, A.B.	808
116, 124	Nebeshwar-Sharma, K.
Mukherjee, D.D.	038
251	Negi, A.S.
Mukherjee, M.	293
446	Negi, K.S.
Mukherji, D.D.	490
252	Negi, M.
Mushtaq, B.	491, 703
810	Negi, R.K.
Mustafa, G.	318, 492, 493
551	Negi, T.
Na-Nakorn, U.	318, 492
497	Nevill, C.A.
Naeem, M.	494
447	Ng, H.H.
Nagarathna, A.V.	495, 496, 800
332	Nguyen, T.T.T.
Nagpure, N.S.	497
705, 706	Ogale, S.N.
Nair, K.K.	364, 365, 498, 499, 500, 501
253	Page, L.M.
Najar, A.M.	766
114	Pahwa, D.V.
Nandeesh, M.C.	502
165, 408	Pal, A.K.
Narayan, K.P.	011, 012
294	Pande, A.
Naskar, M.	407
119	Pande, J.
Nath, P.	133
448, 449, 450, 451	Pande, M.K.
Nath, S.	710, 712, 715
125, 161, 452	Pande, V.
Nautiyal, B.P.	189, 587, 601
701	Pandey, A.
	426, 503, 505, 595
	Pandey, A.K.
	390, 504
Nautiyal, P.	
036, 075, 076, 077, 078, 079, 081, 165, 206, 351, 352, 353,	Pandey, D.N.
374, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463,	218
464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475,	Pandey, H.
476, 477, 478, 479, 480, 481, 482, 483, 484, 486, 487, 507,	601
702, 703	Pandey, N.
Nautiyal, R.	642, 717
036, 470, 471, 472, 485, 486, 487, 582, 703	Pandey, N.N.
Nayak, A.K.	085, 098, 407, 641, 643, 644, 726, 727
488, 489	
Nazir, A.	



- Pandey, R.C.
506
- Pandey, R.K.
070
- Pandey, S.K.
507
- Pandian, A.K.
595
- Pandit, A.K.
508
- Pandit, M.K.
073, 074, 080, 197, 509, 510, 511, 512
- Pant, B.C.
549
- Pant, M.C.
031, 513
- Pascoe, E.H.
514
- Pathak, A.K.
594, 595
- Pathak, J.K.
068, 071, 072, 297, 298, 506, 515, 516
- Pathani, K.
517
- Pathani, S.S.
134, 135, 327, 518, 519, 520, 521, 522, 523, 524, 525, 526,
527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538,
539
- Patil, R.
540
- Patiyal, R.S.
050, 057, 058, 059, 390, 425, 428, 429, 430, 431, 504, 541,
732
- Patrick, N.J.
112
- Paul, A.K.
709, 713
- Paul, S.K.
390, 633
- Peter, T.
542, 558
- Pilgrim, G.E.
543
- Pillai, R.S.
544, 545, 546
- Pinder, A.C.
208, 547
- Pokhriyal, R.C.
703
- Ponniah, A.G.
049, 444, 596
- Pradhan, N.
548
- Prasad, R.
549, 699
- Punniyam, M.
022
- Purohit, R.
550
- Qadri, M.Y.
044, 508, 551, 552
- Qaqqum, A.
553
- Qassim, S.Z.
553
- Qureshi, T.A.
099
- Rab, A.
808
- Raghavan, R.
203, 205, 207, 208, 547
- Raghuvanshi, S.K.
006
- Rahman, H.
216, 217
- Rahman, M.A.
554
- Rahman, M.R.
554
- Rai, A.K.
671
- Raina, H.S.
443, 555, 556, 557, 558, 559, 560, 747, 748, 793
- Raina, R.
734
- Rainboth, W.J.
561, 562
- Raizada, S.B.
563, 564, 565
- Raj, B.S.
566
- Rajagopal, K.V.
193
- Rajana, L.K.
444
- Rajbanshi, K.G.
567, 568, 569



Rajput, V.	Rora, S.L.
493, 570	585
Rajvanshi, A.	Roy, A.K.
571	792
Ramachandra, T.V.	Roy, S.
332	386
Ramanujam, S.N.	Ruhela, M.
572	346
Ramesh, K.	Rumana, H.S.
571	285, 291, 586
Rana, A.S.	Sabah
573	341
Ranjana	Sabzar, A.D.
574	185
Rao, P.S.	Sah, S.
575	587, 601
Rather, S.R.	Saha, K.C.
114	588
Rauthan, J.V.S.	Sahni, A.
576	589
Rawal, Y.K.	Sahoo, P.K.
280, 281, 285, 290, 292, 577	048, 050, 431, 590, 601
Rawat U.S.	Sahu, N.P.
005	011, 012
Rawat, G.	Sahu, S.K.
576	120
Rawat, G.S.	Saigal, B.H.
571	591
Rawat, J.S.	Saikia, B.
578	192
Rawat, M.S.	Saikia, S.K.
579, 580, 581	590
Rawat, R.	Sakar, A.
582	213
Rawat, S.	Salam, A.
576	447
Rawat, U.S.	Samal, P.K.
006	174
Rawat, V.S.	Samanta, S.
081, 351, 352, 353, 470, 471, 472, 583	633
Ray, P.	Samee, W.
584	185
Rayamajhi, A.	Sandhu, G.S.
271	286, 287, 288, 289
Rej, A.	Sanger, S.
119, 120	339
Rizvi, A.F.	Sanjay, M.
483	592



- Sanwal, S.
593
- Saran, D.
714
- Sarkar, P.
347
- Sarkar, U.K.
038, 376, 378, 426, 503, 594, 595, 596, 732, 799
- Sarma, D.
082, 178, 593, 597, 598, 599
- Sarma, O.
600
- Saroch, J.D.
730
- Saroj, T.
216, 217
- Sathyakumar, S.
571
- Sati, J.
016, 047, 587, 601
- Saxena, A.K.
488
- Saxena, N.
431
- Sayani, A.N.
019
- Sehgal, K.C.
602
- Sehgal, K.L.
276, 311, 369, 445, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616
- Sen, D.P.
588
- Sen, N.
105, 162, 333, 617, 618, 619, 620, 621
- Sen, T.K.
177, 622, 623, 624, 625, 626, 627
- Shabir, R.
432
- Shah, F.A.
065
- Shah, G.M.
064, 267
- Shah, K.L.
616, 628
- Shahi, N.
407
- Sharestha, B.
683
- Sharestha, J.
629, 630, 631, 632
- Sharma, A.
359
- Sharma, A.P.
120, 575, 633, 634
- Sharma, B.D.
635
- Sharma, C.K.
636
- Sharma, D.
013, 391, 392, 637
- Sharma, E.
190
- Sharma, J.P.
638
- Sharma, K.
181, 639
- Sharma, K.K.
359, 360, 640
- Sharma, N.K.
060, 430, 641, 642, 643, 644, 717
- Sharma, P.
645
- Sharma, R.
665
- Sharma, R.C.
541, 580, 581, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 690
- Sharma, S.
051, 052, 669
- Sharma, S.C.
337
- Shaw, G.E.
670
- Shebbeare, E.O.
670
- Shilpakar, R.
190
- Shivam, A.
412
- Showkat, A.N.
551
- Shrestha, C.
671



- Shrestha, T.K.
672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683
- Shukla, J.P.
616
- Shyam, S.
684
- Shyamkumar, K.
192
- Siakiya, H.
117
- Silas, E.G.
254, 685, 686
- Singh, A.K.
050, 059, 390, 641, 687
- Singh, B.
753
- Singh, B.K.
102, 103
- Singh, D.
054, 579, 688, 690
- Singh, D.P.
689
- Singh, G.
007, 008
- Singh, H.
008, 009, 691
- Singh, H.B.
442
- Singh, H.P.
325
- Singh, H.R.
032, 033, 034, 035, 041, 076, 077, 078, 079, 110, 111, 170, 171, 172, 173, 421, 470, 471, 472, 484, 486, 487, 582, 668, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 707
- Singh, J.S.
575
- Singh, K.
704
- Singh, M.
102, 342, 505, 705, 706
- Singh, N.
186, 707, 708
- Singh, N.G.
711, 714
- Singh, N.O.
593, 709, 710, 711, 712, 713, 714, 715
- Singh, P.P.
716
- Singh, R.
060, 063, 641, 642, 643, 717
- Singh, S.
718, 719
- Singh, S.D.
392
- Singh, S.P.
550
- Singh, v.
720
- Singh, Y.N.
298
- Sinha, B.
754, 755
- Sinha, M.
721
- Sinha, R.K.
595
- Sivakumar, K.
026, 027, 204, 205, 206, 207, 208, 209, 210, 570, 571, 595, 639, 722, 723, 724, 725
- Sivaraman, G.K.
047, 726, 727, 728
- Smakhtin, V.
729
- Sodhi, A.S.
730
- Srivastava, G.J.
731
- Srivastava, J.B.
638
- Srivastava, M.P.
144
- Srivastava, P.K.
119, 120
- Srivastava, S.K.
732
- Srivastava, S.M.
390
- Srivastava, V.K.
136
- Subla, B.A.
126, 127, 733, 734, 749
- Sukmanomon, S.
497
- Sunder, S.



- 311, 312, 369, 442, 443, 559, 715, 735, 736, 737, 738, 739,
740, 741, 742, 743, 744, 745, 746, 747, 748, 749
- Sundriyal, R.C.
174
- Suri, S.N.
402
- Talwar, P.K.
750
- Tamang, L.
496, 751, 752, 753, 754, 755
- Tamang, P.
756
- Tamuk, O.
273
- Tanaka, M.
265
- Tandon, K.K.
282, 283, 284, 285, 286, 287, 288, 289, 290, 757, 758, 759,
760, 761
- Terashima, A.
762
- Tesia, C.
763
- Tewari, B.C.
319
- Thakiyal, M.S.
764
- Thapliyal, B.L.
005, 006, 010
- Thapliyal, R.P.
468, 505
- Thomas, H.S.
765
- Thomson, A.W.
766
- Tilak, R.
261, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777,
778, 779, 780, 781
- Tiwari, T.
599
- Tiwari, T.N.
782, 783
- Tondon, K.K.
291
- Tripathi, G.
319
- Tripathi, N.K.
185, 339
- Tripathi, V.R.
784
- Tyagi, A.
048
- Tyagi, B.C.
178, 313, 316
- Tyagi, M.
504
- Tyor, A.K.
281, 285, 290, 292
- Under, S.
785
- Uniyal, D.P.
414, 786, 787, 788, 789, 790, 791
- Upadhya, J.C.
504
- Upadhyay, A.D.
792
- Upadhyay, K.
517
- Valmonte-Santos, R.A.
109
- Vass, K.K.
489, 560, 793, 812
- Venu, P.
794
- Verma, J.
412, 730
- Verma, M.
181, 212
- Vinod, K.
067, 393, 795
- Vishen, N.
734
- Vishwanath, W.
018, 388, 796, 797, 798, 799, 800
- Vladykov, V.D.
801
- Wager, L.R.
802
- Wagle, S.K.
548
- Walker, S.
592
- Walker, W.
803
- Wanganeo, A.



734
Whitten, T.
358
WWF
804
Yadava, Y.S.
805
Yaqoob, M.
806
Yazdani, G.M.
807
Yousuf, A.R.
044, 065, 185, 551, 552, 809, 810
Yusufzai, S.I.

019
Zafar, M.
808
Zargar, U.R.
809, 810
Zehra, A.
811
ZiMing, C.
497
Zutshi, D.P.
191, 734, 812
Zutshi, N.
180

06

Butterflies and Odonates of the Indian Himalayan Region



Bibliography on the Butterflies and Odonates of the Indian Himalayan Region

Manish Bhardwaj, Shuvendu Das, Pooja Kala, and Virendra Prasad Uniyal

Introduction

Insects account for about 65% of all described species on earth. As there are a large number of studies on insects because of their huge diversity, it is beyond the scope of this compilation to focus on all insect groups. However, we have attempted here to compile a bibliographic database of butterflies and odonates reported from Indian Himalayan Region(IHR) to understand trends om research and identify gaps in knowledge.

A. Butterflies

Introduction

Lepidoptera is one of the most widespread and widely recognizable insect order in the world. Butterflies are the most studied group amongst insects and the best known insects after ants. Butterflies belong to “flagship taxa” in biodiversity inventories. Since early 18th century butterflies have been studied systematically and about 19,238 species have been documented worldwide (Heppner, 1998). The butterflies were categorized into ten families Papilionidae, Pieridae, Danaidae, Satyridae, Nymphalidae, Amathusiidae, Acraeidae, Erycinidae and Lycaenidae, and Hesperioidea. Except for Hesperioidea all the butterflies are placed in single superfamily Papilionoidea under suborder Rhopalocera and the latter is separated out into superfamily Hesperioidea under suborder Grypocera.

In the Indian subcontinent 1,504 species of butterflies have been recorded so far (Smetacek, 1992) and over 800 species are reported from the Indian Himalayan Region (IHR).The earliest collections of butterflies from the Himalaya were perhaps by Hardwick and Carl von Hugel during 1846-1848. Hardwick collections were described by Doubleday and Gray in 1846 and Hugel collection by Redtenbacher in 1848. Many workers have worked on butterflies from India including the IHR. Pioneers among them were Marshall and DeNiceville (1882-1890), Bingham (1905, 1907) Seitz (1906-1928), Antram (1928), Evans (1932),Wynter-Blyth (1957) and Varshney (1985, 1990, 1997). De Rhe-Philippe (1931) was probably the first to publish a comprehensive list of 246 butterflies from Himalayas of Shimla region which he has included later in his book ‘Butterflies of Indian Region’ (1957). Evans (1932) identified 1,438 species of butterflies from oriental region including 417 species from western Himalaya and 962 species north eastern Himalaya.

Antram (1924) reported about 512 butterflies excluding Lycaenidae and Hesperioidea from North-East Himalayan region. According to his record maximum number of butterflies was found in North Eastern Himalayas that extends into Sikkim. He also listed them as ‘very rare’

and 'rare' which was later incorporated in the schedule-I (Part-4) and schedule-II (Part-2) of the Indian Wildlife (Protection) Act, 1972 (IWPA).

Methods

Online research databases were searched using the search terms "Himalaya" and name of the six Himalayan States such as Jammu and Kashmir, Himachal Pradesh, Uttarakhand, Sikkim, Arunachal Pradesh and West Bengal. Lamas (1991) provided a list of 175 periodical publications, dealing exclusively with lepidopterological studies were also referred, which were available. All the information was entered in the Microsoft Excel Spreadsheet and arranged alphabetically to remove any duplication. All the analyses were carried out in Microsoft Excel to determine the trend of research over the decades, the emphasised areas and the knowledge gap.

Results and Discussion

The bibliography on butterfly fauna of the IHR includes 276 unique entries covering a period of nearly two centuries, starting from 1857 to 2016 (Fig. 6.2). We categorized the articles in four distinct ways: A) The first category was based on the regions of five Himalayan states (Jammu and Kashmir, Himachal Pradesh, Uttarakhand, Sikkim and West Bengal-Darjeeling and Jalpaiguri district and Arunachal Pradesh) where the studies were carried out. B) The second category was based on their publication dates, in which the studies were grouped in 10-year intervals from 1857 to 2016; this enabled us to see the research trends and patterns. C) The third category was based on the subject focus of the research; the publications were categorized based on the broad subjects (ecology and behaviour, taxonomy, evolution, conservation and climate change impact) at which the research was carried out.

Geographical Distribution of Publications

A large number of studies are from Jammu and Kashmir, followed by Himachal Pradesh and Uttarakhand which shows that western Himalayan region was in focus during British era in India (Fig 6.1).

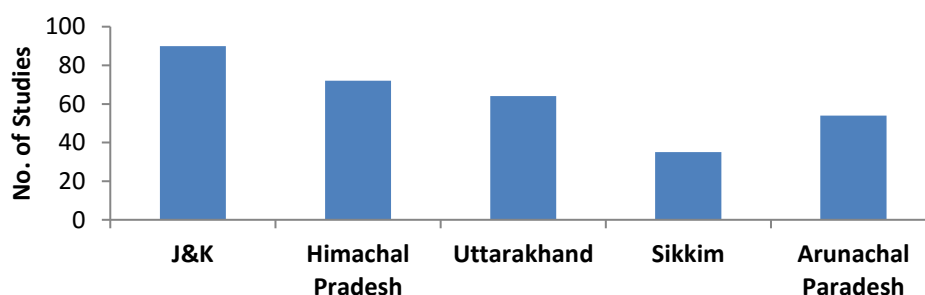


Figure 6.1 State wise distribution of publications

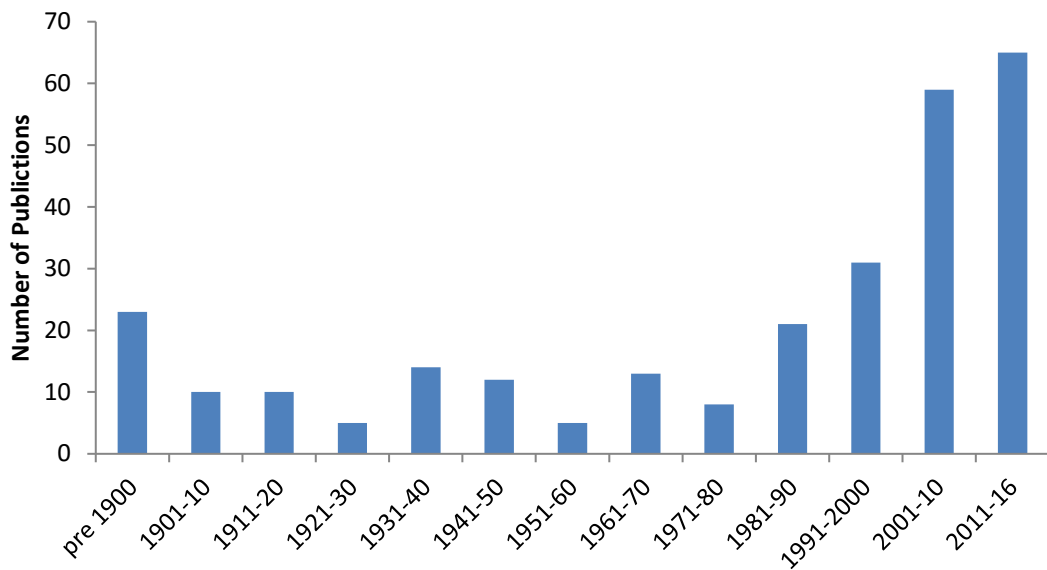


Figure 6.2 Temporal pattern of publications on butterfly of Indian Himalayan Region

D) Articles were also categories based on the five butterfly families which were the object of research in the various publications where no distinct pattern was found. Most of the studies were found to cover all the butterfly families (Fig 6.3). Family Nymphalidae and Papilionidae were include in most of the studies because of their large size and colour patterns. However, in many of the studies family Hesperidae was not included.

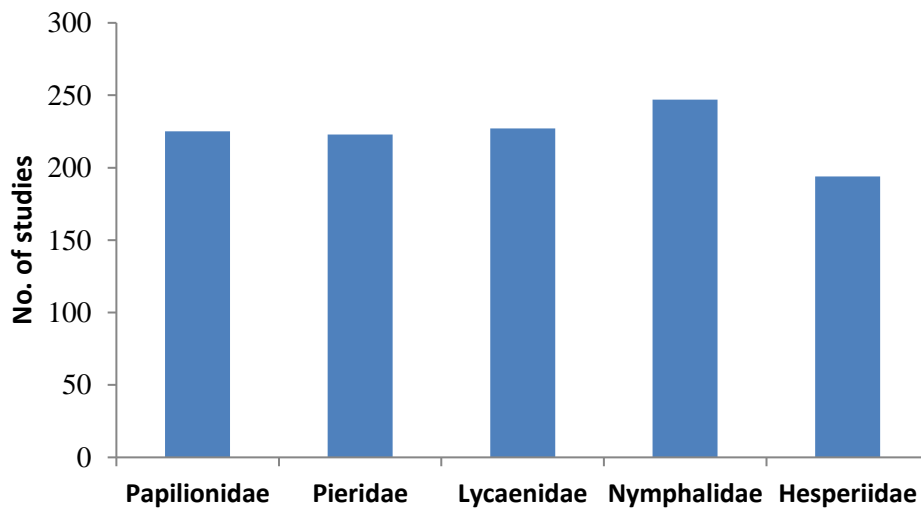


Figure 6.3 Distribution of scientific literature among different families

In recent years there is some progress in the study of butterfly biodiversity from Himalayan region. However most of the researches are confined only to certain localities and these are inventory checklists (Fig. 6.4). Considering the total area of the region information generated

is very meagre. Detailed studies focusing on butterfly biodiversity, ecology and evolution is needed from Himalayan region. This information will help in proper revision of status of butterflies in IWPA.

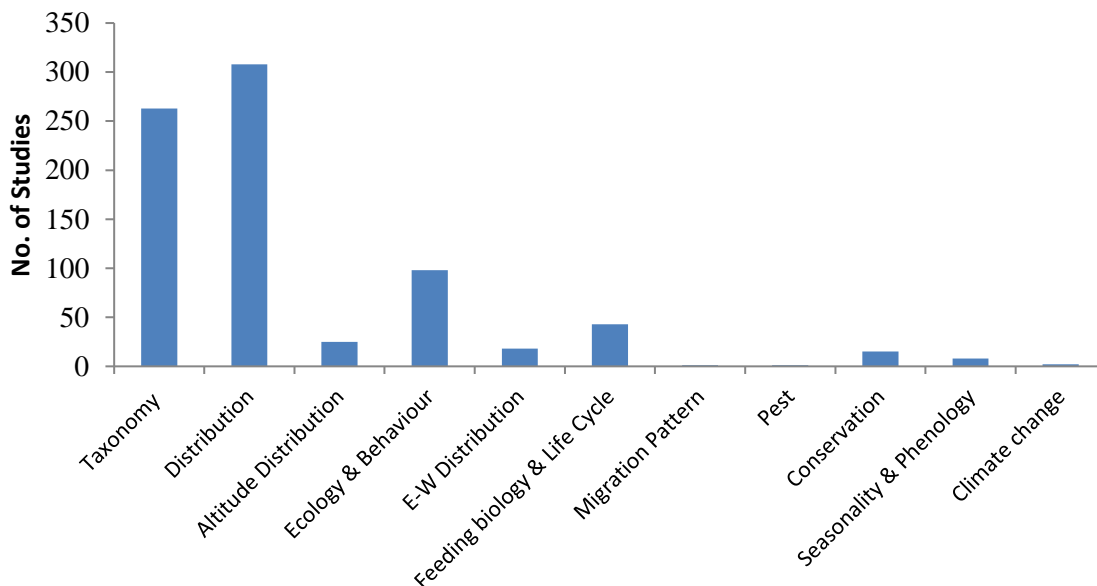


Figure 6.4 Number of publications on butterflies of the Indian Himalayan Region in different subject categories

B. Odonates

The IHR is bestowed with very rich and diverse odonata assemblages. Within the Indian sub-region, the odonatafauna of the Himalaya has so been most extensively studied. During the period of late 1950's to early 1980's, number of odonatologists have studied the dragonflies of the Himalaya (Kiauta, 1975), consequent to which about 225 species, out of approximately 600 Indian species of odonata, have been recorded from the Himalayan region alone (i.e. Western, Central and Eastern Himalaya). These include a considerable number of new species and a large number of new records made from this region since the publication of Fauna of British India.

Variations in the topography and altitudes in Himalaya play important roles in changing the climatic conditions within short distances. The fauna is composed largely of tropical elements derived from the fauna of Indo-malayan sub-region of the Oriental region. It is presumed that after the elevation of the Himalayas, odonata from different parts or the Oriental region have reached the mountains and constitute the present fauna. Hence it is reasonable to think that both hills and forests of the mountains play a great role in the formation of barriers as well as in speciation. Most of the endemic species have narrow geographic distribution and are more susceptible to extinction due to natural and anthropogenic changes in the environment. The endemic Odonata fauna of India is largely

concentrated in four global biodiversity hotspots i.e., the Western Ghats, Western Himalaya, Indo Burmese (includes Andaman Islands) and Sunda land (includes Nicobar Islands).

The scientific literature on odonate fauna of South Asia is available from 18th Century, but it suffers from lack of digitalization and many of these pioneering works on odonate fauna of India are inaccessible. Moreover, information on odonatological studies in the IHR was not available on a single platform. This article comprises the information on available scientific literature on Odonate fauna of the IHR, particularly the trends in research and gaps in knowledge.

Methods

For preparation of the database on the Bibliography of Odonate Fauna of the IHR, we searched using the search terms “Himalaya”, “Fraser”, “Corbett”, “Leifstinck”, “Kumar”, “Mitra” and name of the six Himalayan States viz., Jammu and Kashmir, Himachal Pradesh, Uttarakhand, Sikkim, Arunachal Pradesh and West Bengal.. All the information were entered in a Microsoft Excel Spread sheet and arranged alphabetically to remove any duplication. All the analyses were carried out in Microsoft Excel to determine the trend of research over the decades, the emphasised areas and the knowledge gaps.

Results and Discussion

The bibliography on Odonatefauna of the IHR includes 139 unique entries covering a period over centuries, starting from 1915 to 2016 (Fig 6.5). We categorized the articles in three distinct ways: A) The first category was based on overall distribution (Jammu and Kashmir, Himachal Pradesh, Uttarakhand, Sikkim, West Bengal-Darjeeling and Jalpaiguridistricts and Arunachal Pradesh), taxonomic revision and new addition to the fauna, where the studies were carried out. B) The second category was based on their publication dates, in which the studies were grouped in 10-year intervals from 1900 to 2016; this enabled us to see the research trends and patterns. C) The third category was based on the subject focus of the research; the publications were categorized based on the levels of broad subject (ecology and behaviour, taxonomy, evolution, conservation and climate change impact) at which the research was carried out (Fig. 6.6 & 6.7).

Temporal Pattern of Publications:

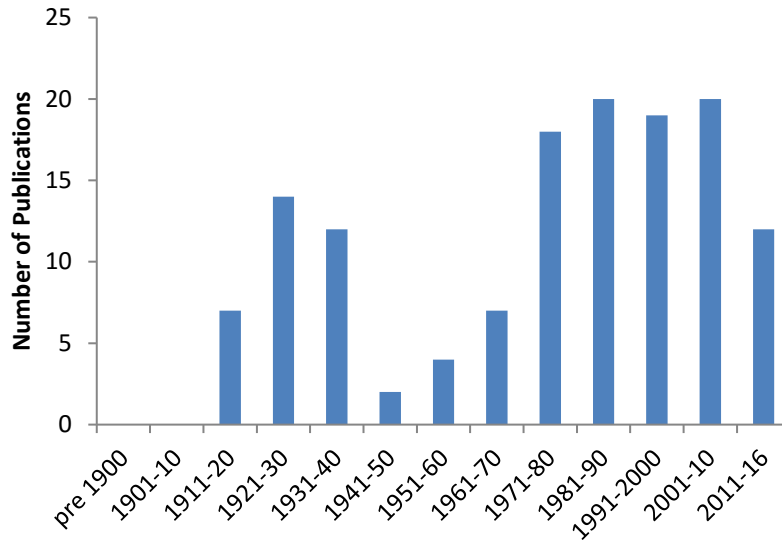


Figure 6.5 Temporal patterns of publications on odonates of Indian Himalayan Region

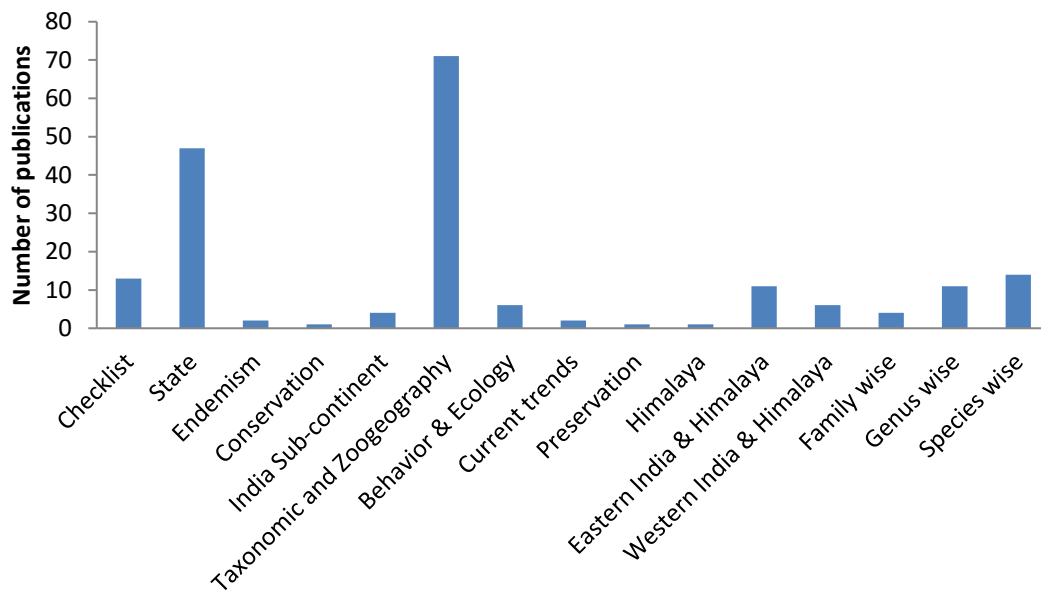


Figure 6.6 Comprehensive classifications of publication on odonates of the Indian Himalayan Region

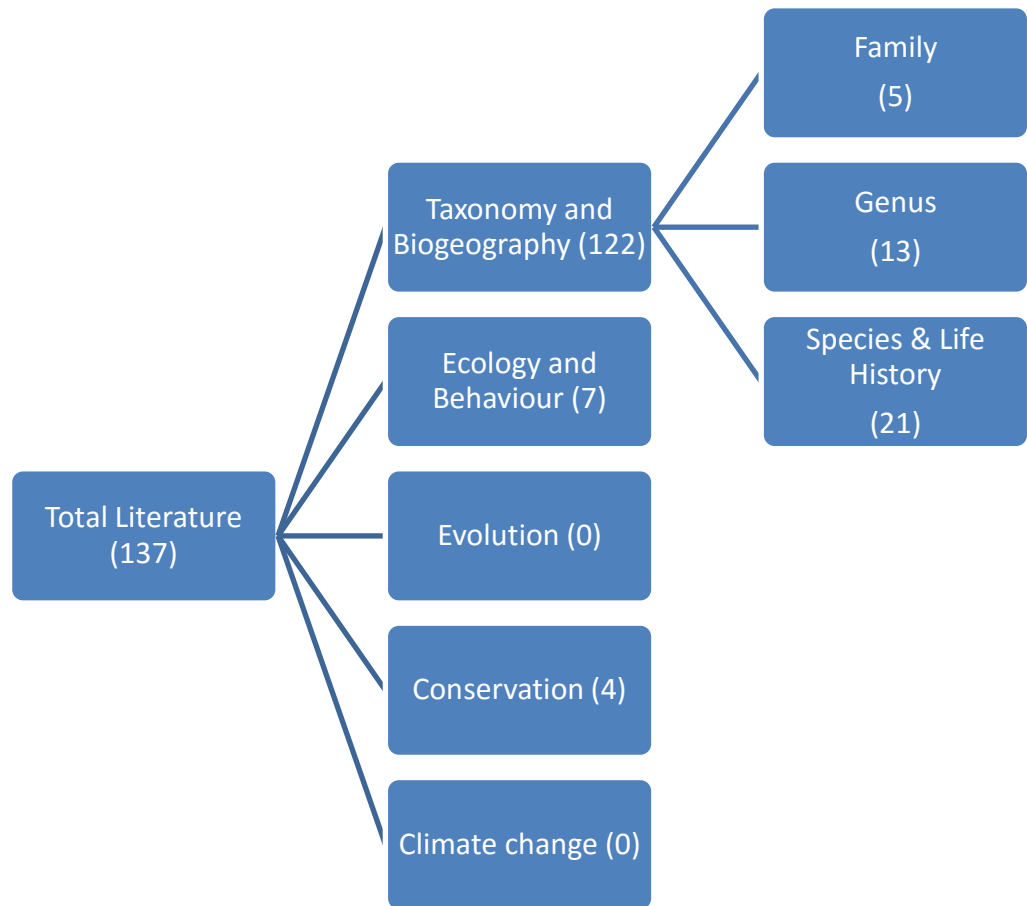


Figure 6.7 Number of publications on odonates of the Indian Himalayan Region in different subject categories

Table 6.1. Subject area, key past research priorities and research gap and future potentialities

Subject Area	Key past research priorities	Research Gap and future priorities
Ecology and Behaviour	Distribution	Proper Distribution map
	Life cycle stages	Taxonomic biases
	Migration pattern	Very less studies
Taxonomy	Morphological Taxonomy	Molecular Taxonomy
		Isolation and Speciation study based on molecular level
		Geometry based morphometry
Evolution	Not studies yet, few hypothesis exist	Should be more study widely considering all levels of study
		Evolution and climate change
Conservation	In few pockets and patches	Should focused on wetland conservation by focusing this taxa as one of the prime
Climate change	Not studies yet but few geomorphic and diurnal changes were noted	Should study Phylogenetic Affinities and Past Climate Distribution of critically endangered and fragmented species population.

In early 19th century, most of the scientific work was based on odonate fauna taxonomic inventory and distribution. But after 1930 the trend of research shifted towards behaviour, ecology and biogeography. But the timing of research was mostly based on individuality (e.g. Laidlaw, Fraser, Asahina, Kumar etc.) (Table 6.1). Due to World War-II, most of the British researchers left the country and overall research in this field suffered for few years. After the war was over, few researchers came back to India and continued their passion towards dragonfly and damselfly. From early 50's Indian field researchers started their quest in Odonatology and brought remarkable contribution since early 60's. However, still there is no such work related to conservation, evolution and climate change in the IHR.

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Author Index

Butterfly

- Acharya, B.K.
001, 002, 003
- Ackery, P.R.
159
- Adhikary, B.S.
145
- Agarwala, B.K.
004
- Ahmad, R.
150
- Alfred, J.R.B.
005
- Antram, C.B.
006
- Arora, G.S.
007, 008, 009, 010, 011, 012, 013, 014, 015
- Arya, M.
096, 097
- Athreya, R.
016, 017
- Avinoff, A.
018
- Azim, M.N.
155
- Baindur, A.
019
- Bala, A.
020, 021
- Balint, Z.S.
022
- Banerjee, K.K.
169
- Bang Hass, O.
023
- Banyal, H.S.
202, 203
- Bashir, I.K.
101
- Beccaloni, G.W.
159
- Bernanrdi, G.
024
- Betts, F.N.
025
- Bhagat, R.C.
150, 151, 152, 153, 154, 155
- Bhandari, R.S.
196
- Bhardwaj, M.
026, 027, 028, 029, 030, 031, 032, 250, 251, 256
- Bhardwaj, S.
241
- Bhargav, V.
250, 252, 256
- Bhat, D.M.
153, 155
- Bhatt, B.B.
039, 085
- Bhattacharya, D.P.
033, 034, 035
- Bhutia, K.D.
158
- Bingham, C.T.
036, 037
- Bogtapa, S.
038
- Borang, A.
039
- Borkotoki, A.
039
- Bruna, C.D.
040
- Butler, A.G.
041
- Cantlie, K.
042
- Chanda, S.K.
266
- Chandel, S.
043
- Chandra, K.
186
- Chaturvedi, M.
044
- Chaturvedi, N.C.
092
- Chaudhury, M.
009, 010, 083



- Chaudhury, P.R.
004
- Chettri, B.
001
- Choudhury, S.R.
004
- Cotton, A.M.
156
- D'Abbrera, B.
045
- Dar, M.A.
102, 150
- Das, J.
046
- Das, N.
167
- Das, R.P.
047
- Das, S.M.
048, 049
- De Lesse, H.
024
- De Niceville, L.
050, 051, 052, 053, 054, 055, 056, 057, 058, 119, 132
- De Rhe-Philipe, G.W.V.
059, 060, 061, 062
- De, J.K.
047
- Devi, A.
167
- Devi, R.
107
- Dobhal, R.
256
- Doherty, W.
063, 064, 065
- Duda, P.L.
048
- Durairaj, P.
066
- Eisner, C.
067
- Elwes, H.J.
068, 069, 070
- Evans, B.W.H.
071, 072, 073, 074, 075, 076, 077, 078, 079, 116
- Gallo, E.
040
- Gasse, P.V.
080
- Ghorai, N.
081, 169
- Ghosh, A.K.
082
- Ghosh, H.C.
136
- Ghosh, S.K.
010, 083
- Gogoi, M.J.
084, 085
- Goswami, R.
098
- Greeshma, M.
086
- Gupta, I.J.
087
- Gupta, M.
020, 021
- Gupta, S.K.
108
- Hannington, F.
088, 089
- Haribal, M.
090, 091, 092
- Hernandez L.M
159
- Home, W.M.L.
093
- Jamdar, N.
094
- Jhaveri, R.
220
- Jiju, J.S.
095
- Joshi, P.C.
096, 097
- Kalita, J.
039
- Karimumkara, S.N
098
- Karmakar, T.
220
- Katayama, T.
099
- Kehimkar, I.
100, 243



Khan, M.R.	Mani, M.S.
101	123, 124, 125, 126, 127, 128, 129, 130, 131
Khan, Z.H.	Marshall, G.F.L.
102	132
Kitching, I.J.	Mathur, P.K.
159	253
Kittur, S.	Mattu, V.K.
103, 256	107, 111, 134, 237, 239, 240
Krishna, M.	Mazumdar, M.
167	167
Kumar, A.	Mehra, B.S.
104, 167	254
Kumar, C.	Mehta, H.S.
105	005, 012, 013, 133, 134, 239, 240
Kumar, K.	Mir, A.
097	101
Kumar, N.	Mitra, B.
249	133
Kumar, P.	Moller, O.
104, 106, 107, 108, 109	070
Kumar, R.	Mondal, D.K.
110, 111, 180	014, 015, 135, 136
Kumar, V.	Moore, F.
043	137, 138, 139, 140, 141
Kumari, A.	Mudoi, P.
146, 147	167
Kunte, K.	Mulla, N.D.
112, 113, 158, 220, 221, 222	092
Lang, A.M.	Naro, T.
114	142
Larsen, T.B.	Ollenbach, O.C.
115	143
Leslie, G.A.	Pachoni, A.K.
116	168
Lesse, H.	Padmawathe, R.
117	103, 256
Limboo, N.	Pajni, H.R.
118	144
Mackinnon, P.W.	Palot, J.
119	186
Malhotra, Y.R.	Pandav, B.
048	145
Malik, I.A.	Pandey, R.
101	197
Malik, S.	Parida, P.
120	046
Mandal, D.K.	Pathania, P.C.
011, 121, 122	146, 147, 154



- Patiyal, R.
043
- Peile, H.D.
148
- Poornima, R.
270
- Qureshi, A.A.
149, 150, 151, 152, 153, 154, 155
- Racheli, T.
156
- Radhakrishnan, C.
157
- Rai, S.
158
- Raina, R.H.
102
- Ramamurthy, V.V.
102
- Rawat, G.S.
236
- Robinson, G.S.
159
- Rose, H.S.
144, 160, 161, 162, 163, 164, 165
- Roy, P.K.
098, 166, 223
- Saha, G.K.
047
- Sanyal, A.K.
032, 047, 251
- Sarma, H.N.
235
- Sarma, K.
167
- Sarmesh, A.
085
- Sbordoni, V.
040
- Sebastian, J.
168
- Sengupta, P.
081, 169
- Sevastopulo, D.G.
170, 171, 172, 173, 174, 175, 176, 177, 178, 179
- Sharma, B.P.
043
- Sharma, K.L.
180
- Sharma, N.
160, 161, 162, 163, 181
- Sharma, R.M.
133, 134, 182
- Sharma, S.
021
- Shukla, J.P.N.
087
- Shull, E.M.
183, 184
- Sidhu, A.K.
164, 165, 185, 186
- Singh, A.P.
032, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199
- Singh, H.
270
- Singh, R.
198
- Singh, R.P.
200
- Singh, S.
126, 127, 128, 129, 130, 131, 201
- Singh, S.K.
255
- Singh, V.
202, 203
- Sinha, B.
066
- Sivakumar, K.
103, 145, 256
- Smetacek, P.
204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219
- Sondhi, S.
142, 199, 220, 221, 222, 223
- Sondhi, Y.
220
- South, R.
224, 225
- Stempffer, H.
226
- Swinhoe, C.
227, 228, 229, 230, 231, 232
- Tahir, S.I.
150



Talbot, G.	257, 258, 259, 260, 261, 262, 263, 264, 265, 266
233, 234	
Talukdar, S.	Vasudevan, K.
235	145
Tamuk, M.	Venkatesh, V.
039	267
Tara, J.S.	Verma, K.D.
020, 021	049
Tewari, R.	Vijayan, L.
236	002, 003
Thakur, M.L.	Virkar, P.S.
237	268
Thakur, M.S.	Walia, V.K.
133, 134, 238, 239, 240	012, 013, 144
Thakur, S.	Watson, E.Y.
109, 241	269
	Weiss, J.C.
Thomas-Glover, J.W.	067
242	Wiswanathan, G.
Thombre, D.	270
243	Wynter-Blyth, M. A.
Uniyal, V.P.	276
028, 029, 030, 031, 032, 103, 145, 244, 245, 246, 247, 248,	Wynter-Blyth, M.A.
249, 250, 251, 252, 253, 254, 255, 256	271, 272, 273, 274, 275
Varshney, R.K.	Zaffar, N.
	021

Author Index

Odonata

- Asahina, S.
001, 002, 003, 004, 005, 006, 007, 008, 009, 010
- Atkinson, E.T.
011
- Babu, R.
012, 013, 014, 015, 016, 096
- Bayal, H.S.
125
- Bhargava, R.N.
017
- Bhasin, G.D.
018, 019
- Bisht, R.S.
020
- Cafri, S.D.
021
- Centina, P.
021
- Chakraborty, P.
126
- Chakravarty, J.
123
- Chandra, K.
022
- Chandra, M.
023
- Cinha, C.
075
- Das, S.M.
020
- Davies, D.A.L.
024, 025
- Dhanze, R.
121
- Dow, R.
089
- Fraser, F.C.
026, 027, 028, 029, 030, 031, 032, 033, 034, 035, 036, 037,
038, 039, 040, 041, 042, 043, 044, 045, 046, 047, 048, 049,
050, 051
- Garrison, R.W.
052
- Ghosh, A.K.
053
- Ghosh, S.K.
107
- Gupta, S.
132, 133
- Hamalainen, M.
054, 055
- Juneja, D.P.
067
- Khaliq, A.
056
- Khanna, V.
068
- Kiauta, B.
057
- Kumar, A.
058, 059, 060, 061, 062, 063, 064, 065, 066, 067, 068, 069,
070, 119, 120
- Lahiri, A.R.
071, 072, 073, 074, 075, 076, 077, 097, 098
- Laidlaw, F.F.
078, 079, 080, 081, 082, 083, 084, 085
- Lieftinck, M.A.
086
- Mathur, P.K.
135
- Mitra, A.
069, 087, 088, 089, 135
- Mitra, T.R.
013, 090, 091, 092, 093, 094, 095, 096, 097, 098
- Mondal, S.B.
108
- Nair, M.V.
099, 100
- Nandy, S.
014, 016
- Navas, R.P.L.
101
- Nesemann, H.
102
- O'Brien, M.F.
052
- Prasad, M.
070, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 122
- Ram, R.



112	Sivaramakrishnan, K.G.
Roonwal, M.L.	131
019	Srinivasan, G.
	015
Sahni, D.N.	Srivastava, V.D.
113, 114, 115, 116, 117, 118	127
Sandhu, R.	St. Quentin, D.
076	128
Sangal, S.K.	Steinmann, H.
119, 120	129
Sengupta, T.	Subramanian, K.A.
053	016, 089, 100, 130, 131
Shah, D.N.	Takhelmayum, K.
102	132, 133
Shah, R.D.T.	Terzani, F.
102	021
Sharma, G.	Tobin, P.
089	024, 025
Sharma, I.	Tsuda, S.
121	134
Singh, A.	Uniyal, V.P.
109, 122	135
Singh, O.T.	Varatharajan, R.
123	123
Singh, S.	Varshney, R.K.
124	111
Singh, V.	Von, N.E.
125	052
Sinha, C.	Walia, G.K.
077, 110, 126, 127	076

07

Soil Nematodes of the Indian Himalayan Region



Bibliography on the Soil Nematodes of the Indian Himalayan Region

Priyanka Kashyap, Manish Bhardwaj and Virendra Prasad Uniyal

Introduction

The nematodes are ubiquitous found everywhere on this earth, even in uninhabitable habitats from hot spring, ice to deep ocean trenches. Some of them are the parasites of agricultural and horticultural crops, invertebrates and vertebrates. A majority of them are free living in the soil or marine, or freshwater and some are predaceous. Nematodes occur in a wide range of habitats which is incomparable by any other metazoan group. About 0.1-1.0 million marine nematodes may be found per Sq.m. Roughly it has been estimated that out of 500,000 nematode species over the world; approximately 80,000 nematode species may be existing in India. Nematode have huge expected number of species, only some species in thousands are known till date from all over the world. In India, considerable work has been done on animal nematodes but the work on plant and soil nematodes started late. The first plant parasitic (root-knot) nematode was reported by Barber (1901) from tea gardens of southern India.

Soil nematodes act as a good biological agent in the management of plant parasitic nematodes. There has been a prominent increase in the use of nematodes in environmental studies as it provides easy detection of change in decomposition pathways and soil functioning at an early stage resulting in soil health status, ultimately act as a bio indicator for climate change. Certain nematodes take part in maintaining natural balance in the soil while a few are good experimental animals in the basic research on nutrition, physiology, genetics, etc. A few families like Rhabditidae, Cephalobidae etc may be considered as indicator species. Nematodes can be used for determining pollution and other types of aquatic disturbances as nematodes can ingest heavy metals and other pollutants settled in the sediments. They can be used for determining pollution and other types of disturbances.

The great diversity of life forms, evolved as a result of variation in climatic conditions and topography which is distributed in a variety of habitat types ranging from tropical's to rainforest; temperate forest and alpine grasslands in Himalaya. In India history of nematode research is too young and this it is not possible to compare the present state of the art with the past. The first vertebrate nematode was recorded in 1855 while the first plant nematode in 1901. We compiled a bibliographic database of studies on soil nematodes conducted in Indian Himalayan Region.

Methods: Data was searched using the search terms Himalaya, soil nematodes and name of the six Himalayan States such as Jammu and Kashmir, Himachal Pradesh, Uttarakhand, Sikkim and Arunachal Pradesh on internet, library of zoological survey of India, Dehradun and its e-publications. All the information were entered in the Microsoft Excel Spreadsheet and arranged alphabetically to remove any duplication. All the analyses were carried out in Microsoft Excel to determine the trend of research over the decades, the emphasised areas and the knowledge gap.

Result and Discussion: The bibliography on micro fauna of Indian Himalayan Region includes 209 unique entries covering years starting from 1956 to 2016. We categorized the articles in three distinct ways: A) The first category was based on parts of 5 Himalayan States (Jammu and Kashmir, Himachal Pradesh, Uttarakhand, Sikkim, and Arunachal Pradesh) where the studies were carried out. B) The second category was based on their publication dates, in which the studies were grouped in 10-year intervals from 1956 to 2016; this enabled us to see the research trends and patterns. C) The third category was based on the subject focus of the research; the publications were categorized based on the levels of broad subject (ecology and behaviour, taxonomy, evolution, conservation and climate change impact) at which the research was carried out.

Entries based on 5 Himalayan states of Indian Himalayan Region

Most no studies are from Jammu and Kashmir (Fig. 7.1) followed by Himachal Pradesh. Least number of studies was reported from Arunachal Pradesh and Sikkim.

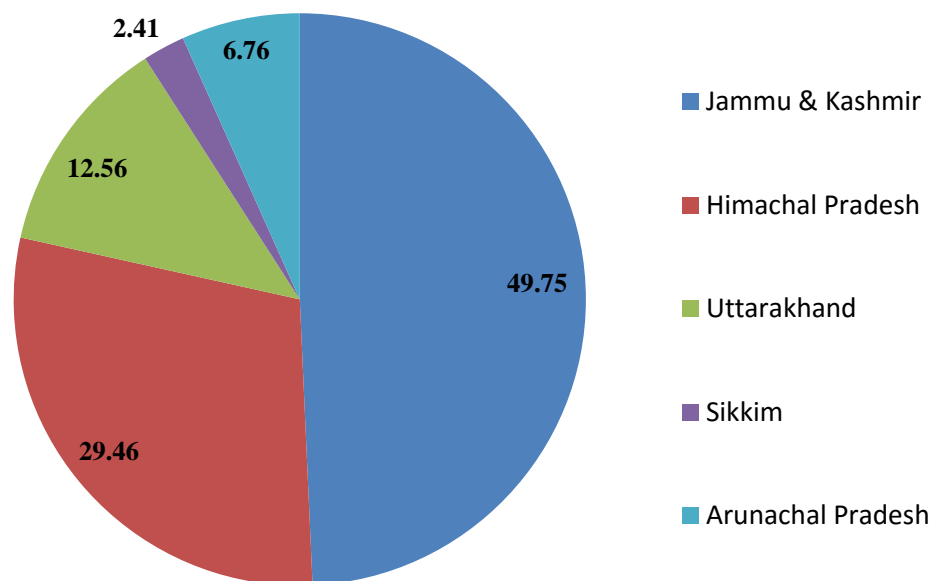


Figure 7.1 State wise distribution of publications

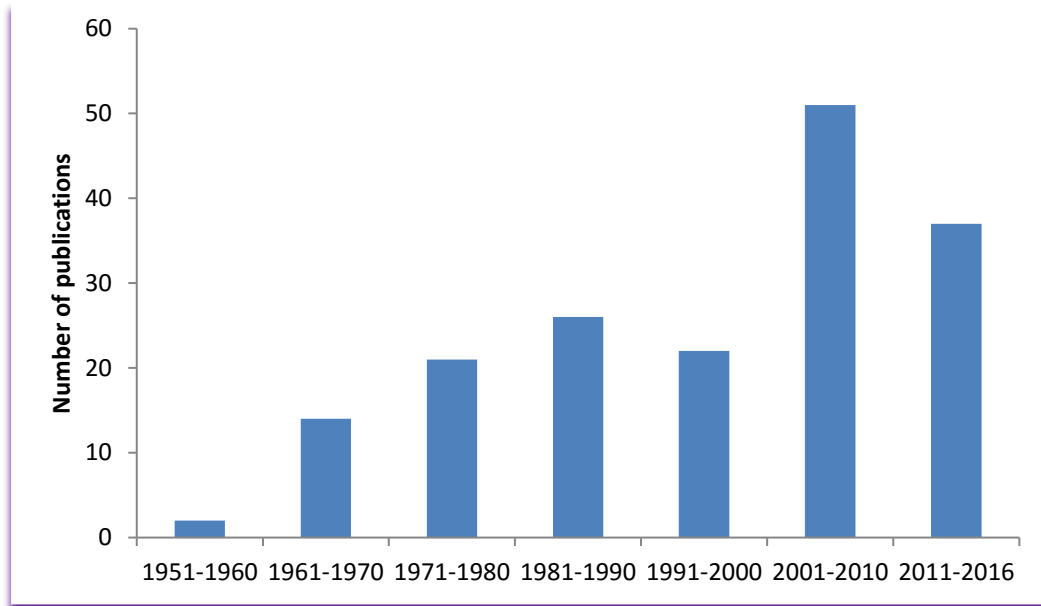


Figure 7.2 Temporal pattern of publications on nematodes of Indian Himalayan Region

The results show that there is an increase in nematode research during last decades. However, it is observed that there was a drop during the period from 1991-2000 (Figure 7.2).

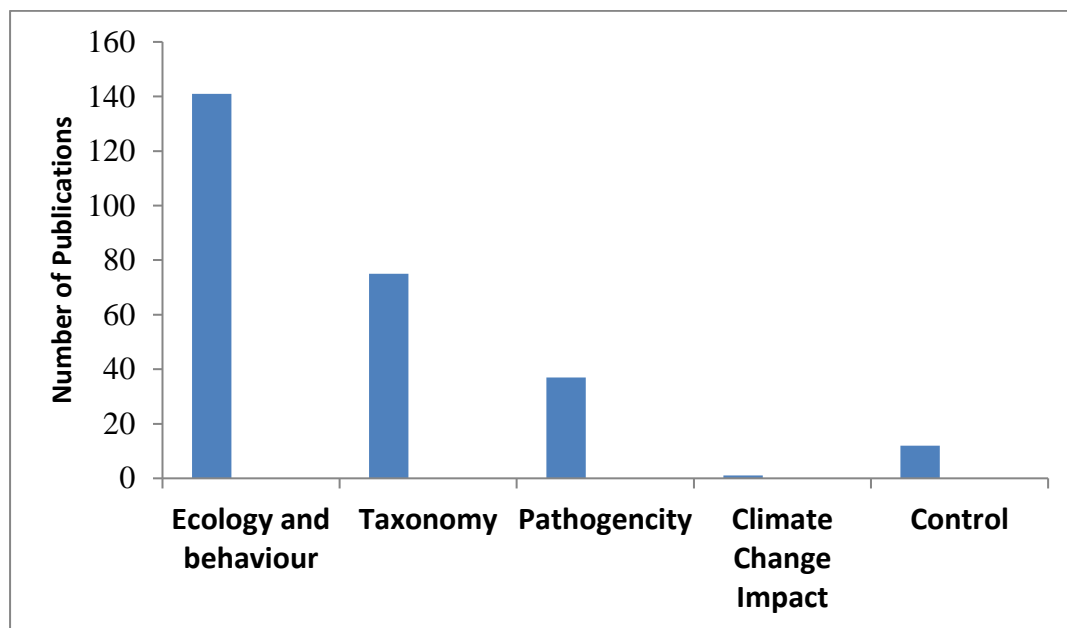


Figure 7.3 Number of publications on nematodes of the Indian Himalayan Region in different subject categories

Studies grouped based on subject focus

Based on the subject focus of the research the publications were categorized based on the levels of broad subject (ecology and behaviour, taxonomy, pathogenicity, climate change impact and control) in Indian Himalayan region (Figure 7.3).

Research Gaps and Future Priorities

It is observed that most of the studies are result of random surveys in most of the states of IHR. Moreover, these studies are attempts to identify the important nematode pests of agricultural crops which show that considerable work has been done on nematodes residing in agricultural fields and studies on nematodes from forest ecosystems are very meagre. There is an increase in number of studies on nematodes during last decades which may be attributed to the fact that there is advancement in technology during this period. It is also observed that most of the work has been conducted on plant-parasitic nematodes while there are very few studies on bacteriovors, fungivores and omnivores nematodes. There are a large number of studies on ecology and behaviour theme followed by taxonomy, pathogenicity and their control. Studies on themes like genetics, climate change are needed.

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Author Index

Nematodes

- Abbas, A.
001
- Abid, H.
002
- Adekunle, O.
003
- Ahlawat, S.
186
- Ahmad, F.
004
- Ahmad, M.
005
- Ahmad, N.
020
- Ahmad, R.
133, 135
- Ahmad, W.
006, 007, 014, 015, 016, 017, 018, 099, 100, 102, 202
- Ahmed, S.
191
- Akhtar, Y.A.
007
- Ali, S.S.
008
- Amman-ullah, A.S.
095
- Anwar, M.
009
- Askary, T.
010, 011, 012
- Bajaj, B.
137
- Banday, S.
011, 012
- Banerjee, S.
130
- Baniyamuddin, M.
006, 013, 014, 015, 016, 017, 018
- Baqri, Q.
019, 020
- Baqri, Q.H.
021, 022, 023, 056
- Bassi, K.K.
106
- Bert, W.
186
- Bhagat, K.S.
105
- Bhagat, R.
025
- Bhagat, R.C.
024
- Bhandari, R.S.
125
- Bhardwaj, A.K.
026
- Bhat, I.A.
027
- Bhat, M.
196
- Bhat, O.
028
- Bhatia, M.
138, 143
- Bhatti, D.S.
052
- Bhutia, P.T.
126
- Bohra, P.
021
- Chandel, R.S.
192
- Chandel, Y.S.
029, 030, 078, 079, 080, 192
- Chaturvedi, Y.
031, 076
- Coomans, A.
008, 057
- Dangwal, L.
032
- Dar, G.H.
095
- Das, A.K.
033, 034
- Das, J.
033, 034
- Das, M.
108



- Das, S.K.
035
- Deysarkar, S.R.
036
- Dubey, A.
166
- Fotedar, D.N.
037, 038, 039, 040, 041, 042, 043, 044, 045, 046, 047, 050,
066, 088
- Gantait, V.V.
130
- Gardezi, S.
048
- Gupta, D.K.
049
- Gupta, R.
169
- Hallan, V.
003, 077
- Handoo, Z.A.
037, 038, 039, 050
- Haque, I.U.M.
009
- Hussain, A.
051, 090, 135
- Iqbal, U.
011
- Jain, R.K.
052
- Jairajpuri, M.S.
005, 007, 008, 022, 023, 051, 053, 054, 055, 056, 057, 058,
059, 060, 183, 184, 200, 202
- Jaiswal, R.
181
- Jandaik, S.
080
- Jauhari, R.K.
061
- Jayaprakash, A.
091
- Kalha, C.S.
173, 174
- Kalia, D.
069, 104
- Kashyap, A.S.
144, 145, 156, 157
- Kaul, V.
028, 040, 041, 042, 062, 063, 064, 065, 066, 067, 068, 173,
197, 198, 199, 203
- Kaur, D.
069, 161
- Kaur, J.
160
- Kaushal, K.
180
- Khajuria, J.
201
- Khajuria, M.
025
- Khan, E.
070, 155
- Khan, M.
071, 074
- Khan, M.L.
072, 073, 146, 147, 158
- Khan, M.R.
108
- Khan, R.
051
- Khanna, A.S.
080
- Khera, S.
075, 076
- Kiran, S.
163
- Koul, V.
105, 174
- Kulshrestha, S.
003, 077
- Kumar, S.
003, 030, 078, 079, 080
- Lal, A.
113
- Lal, M.
061, 129
- Lone, G.
081, 082
- Mahajan, R.
043, 044, 045, 046, 047, 083, 084, 085, 086, 087, 088
- Mahboobi, A.
101
- Mahmood, T.
103
- Makhnotra, A.K.
089
- Malhotra, S.K.
115



Mantoo, M.	Prakash, K.
205	191
Masoodi, M.	Prasad, B.
199	109
Medhi, R.P.	Prasad, K.S.K.
108	110
Mehta, H.S.	Prasad, R.
127	003
Mir, A.A.	Pun, K.B.
204	108
Mir, M.	Qazi, M.A.
012	186
Mir, R.	Raikhy, G.
090	003, 077
Mishra, P.	Raina, A.
091	201
Mughal, S.	Raina, R.
009	111
Mukherjee, T.D.	Raj, B.
092	112
Mukhopadhyay, A.K.	Rajan
093	113
Mukhopadhyay, M.E	Ram, R.
094	003, 114
Munshi, N.A.	Rana, V.K.
095	080
Mushtaq, P.	Rao, P.V.L.
006, 096, 097, 098, 099, 100, 101, 102	034
Mustaqim, M.	Rastogi, K.B.
186	147
Namgyal, D.	Rautela, A.S.
107	115
Naz, T.	Rawat, V.S.
102	116
Nazar, N.	Riaz, A.
103	009
Negi, S.	Rizvi, A.N.
104	117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128
Nehru, R.K.	Roy, K.
105	093
Nirula, K.K.	Saha, M.
106, 112	129
Pandey, A.	Sarkar, S.R.D.
107	179
Pant, R.P.	Satyapriya
108	175
Phunchog, S.	Sen, D.
026	036, 130



- Sen, S.
148
- Seth, A.
131
- Sethi, C.
132, 185
- Shah, A.
090, 133, 134, 135, 190
- Sharma, G.
074, 136, 137, 138
- Sharma, G.C.
139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150,
151, 152, 153, 154, 155, 156, 157, 187
- Sharma, G.S.
158
- Sharma, N.
069, 159, 161
- Sharma, N.K.
131, 149, 150, 151, 152, 153, 154, 155, 158, 160
- Sharma, P.
162, 163
- Sharma, P.K.
079
- Sharma, P.L.
026
- Sharma, V.
164, 165, 166
- Shukla, Y.R.
147
- Siddiqi, A.H.
058, 070
- Siddiqi, M.R.
167
- Siddiqui, A.H.
059, 060
- Siddiqui, M.A.
004
- Singh, A.
032
- Singh, B.
034
- Singh, H.R.
193
- Singh, H.V.
175
- Singh, K.
178
- Singh, M.
129
- Singh, P.
174, 175, 176
- Singh, S.
168
- Singh, V.
169, 207, 208
- Singh, V.B.
174, 176, 177
- Singh, V.K.
170, 171, 172, 173, 174, 175, 176, 177
- Sirohi, A.
178
- Soota, T.D.
179
- Srivastava, A.
180, 181
- Srivastava, L.S.
049
- Srivastava, N.
182
- Srivastava, S.
128
- Sultan, M.S.
183, 184
- Swarup, G.
132, 185
- Tahseen, Q.
051, 186
- Tara, J.
207, 208
- Thakur, B.S.
156, 157
- Thakur, N.
187
- Thapa, R.
188
- Thirumalachar, M.J.
189
- Tomar, V.V.S.
018
- Vaid, S.
090, 134, 135, 190
- Vaish, S.
191



Vashisth, S.	192	Yadav, A.	201
Verma, A.K.	073	Yasmin, A.	202
Verma, N.	003	Zaidi, A.A.	003
Verma, R.R.	193	Zaki, F.	081, 205
Verma, V.S.	174, 176	Zaki, F.A.	198, 203, 204
Walia, K.	104	Zako, F.	082
Waliullah, M.I.S.	001, 067, 068, 082, 194, 195, 196, 197, 198, 199, 203	Zalpuri, L.	177, 206, 207, 208
Wasim, A.	200	Zargar, S.	090

08

Microflora (lichens, fungi and bacteria) of the Indian Himalayan Region



Bibliography on microflora (lichens, fungi and bacteria) of the Indian Himalayan Region

Pamela Bhattacharya, Sonam Priyadarshani, Devendra Kumar, Ishwari Datt Rai, Gautam Talukdar and Gopal Singh Rawat

Introduction

Microflora plays a fundamental role in the biogeochemical cycle of the earth, therefore maintaining balance of the basic support system of life. Microorganisms are beneficial in increasing the soil fertility and plant growth as they are involved in several biochemical transformation and mineralization activities in soils. Lichen, fungi and bacteria are pioneer in the initial process of soil formation and ecosystem development. In the process of ecological succession these are primary colonizer of inorganic system or bare rock, secrete acids and initiate process of soil formation. They are important indicator of the ecosystem health and important for monitoring change in their surroundings. Soil fungi and bacteria play a key role in many essential processes such as organic matter decomposition and elemental release by mineralization. The vast metabolic diversity of soil microbes means their activities drive or contribute to the cycling of all major elements (e.g. C, N, P), and this cycling affects the structure and the functions of soil ecosystems as well as the ability of soils to provide services to people. In this chapter we compiled bibliography of the available literature on the microflora in the Indian Himalayan Region (IHR). We presented a brief about the coverage of studies along the Himalayan zone, trends of the publication from earliest available data and coverage in terms of the taxonomy, ecology and other relevant fields. The chapter is divided in to 3 taxa specific section followed by bibliography.

Methods

Web search engines such as Google Scholar, Scopus and Web of Knowledge were used using the keywords and terms Himalaya, name of the Himalayan states including terms like microflora, microorganisms, soil bacterial/microbial diversity, lichen, bacteria and fungi. Old literature was extracted from the subject websites such as www.botanicus.org, www.archive.org, www.biodiversityheritagelibrary.org etc. Literatures were collected on various aspects of studies on lichen from Lichenology Laboratory and Library of CSIR-National Botanical Research Institute (NBRI), Lucknow. All information were entered in Microsoft excel spreadsheet and organized into different categories such as literature available from six Himalayan States; their publication dates and subject focus of the research. The publications were categorized based on the broad subject of research such as taxonomy, ecology, genetics/genomics, conservation, and climate change. All analyses were carried out in excel spreadsheet to determine the trend of research over the decades, the emphasized research areas and knowledge gap.

1. LICHEN

Lichens, the mutualistic association of an alga (microalgae/cyanobacteria) and fungus are the most successful symbiotic relationship in nature. This peculiar association of the two symbionts makes lichens one of the most unique organisms on the earth, capable of

inhabiting the extreme environmental condition and pioneer habitats. Lichens are most effective and reliable indicators of ecosystem functioning, environmental conditions and are sensitive to a wide variety of environmental stressors like habitat destruction, air pollution and climate change. They are various in growth forms such as crustose, foliose, squamulose, leprose, fruticose and dimorphic-squamulose, and grow on almost all kind of substrates with greater predominance in tropical, subtropical and temperate regions where diversity varies along the environmental gradients. In India the pioneer work on lichen was carried by the European botanists, the sporadic collections were sent to European countries for study. Detailed account of these studies has been published by D.D. Awasthi (Father of Indian Lichenology) (1965) in his publication "Catalogue of lichens' from India, Nepal, Pakistan and Ceylon". Previously, Singh (1964) enumerated 947 species of lichen in his publication "*Lichens of India*", but this publication was not much valuable than D.D. Awasthi (1965). During the last sixty years, a number of work published on various aspect of lichens by Indian and foreign lichenologists. Four institutions are mainly responsible for the present development and wealth of lichen in India, viz., Department of Botany, Lucknow University, Lucknow; Botanical Survey of India; Agarkar Research Institute, Pune and CSIR-National Botanical Research Institute, Lucknow.

The Indian Himalayan region (IHR) exhibits abundant variety and luxuriant growth of subtropical-temperate-alpine lichens (Upreti 1998). The lichens form dominant terrestrial vegetation in higher alpine habitats in the Himalaya. The higher alpine habitats in the Himalaya also exhibit dominant terrestrial vegetation of lichens together with other herbaceous plants (Upreti 1998). Though lichens have great ability to survive in harsh environment but are most sensitive to microclimatic changes, thus they act as a natural sensor and successfully utilized as biological indicator of air quality and climate change studies. Quaraishi (1928) was probably the first Indian who recorded 35 species of lichens near Mussoorie in western Himalaya. In IHR different studies during last two decades were mainly performed by Lichenological Laboratory of CSIR-NBRI, Lucknow.

The scientific literature on lichens of Indian Himalaya Region is available from dated back to mid 18th Century. Most of the studies in IHR were accomplished by CSIR-NBRI, Lucknow; Lucknow University and Botanical Survey of India. However, information on lichenological studies in IHR was not available on single platform. The present article comprises the information on available scientific literature on lichens of Indian Himalayan Region, particularly the trend of research with time and the knowledge gap.

Result and Discussion

The bibliography on lichen wealth of Indian Himalayan Region includes 309 unique entries covering a period of almost two centuries, starting from 1876 to 2016. We categorized the articles in three distinct ways: A) The first category was based on parts of six Himalayan States (Jammu and Kashmir, Himachal Pradesh, Uttarakhand, Sikkim, and Arunachal Pradesh) where the studies were carried out. B) The second category was based on their publication dates, in which the studies were grouped in 10-year intervals from 1876 to 2016; this enabled us to see the research trends and patterns. C) The third category was based on the subject focus of the research; the publications were categorized based on the levels of broad subject e.g. air pollution & climate change, Biochemistry and physiology, diversity and distribution, floristics, molecular biology, new records, new species, economic importance, ecology and lichenometry at which the research was carried out.

Geographic Distribution of Publications

Figure 8.1 shows that most of the publications on lichens were from Uttarakhand (156; >40%), when compared to other states of IHR. Only 54 studies were available on lichens in Himachal Pradesh and Jammu and Kashmir, respectively. This could be possible inaccessible hilly terrain at northern range. In Eastern Himalaya, Sikkim (16%) stands highest number of studies and publication on lichens than Arunachal Pradesh (15%). The rugged, hilly, and largely inaccessible terrain, which is cut by many rivers and streams originating from higher Himalaya, has made lichen surveys in the eastern Himalayan region extremely difficult.

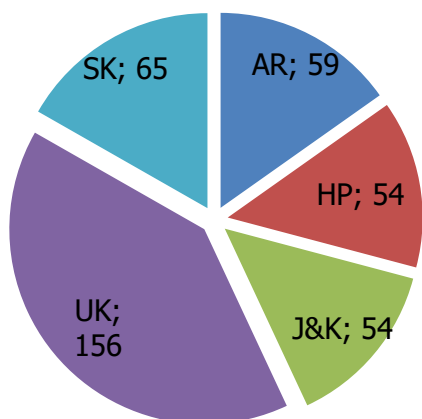


Figure 8.1 Percentage graphical representation of published work covering different aspects of lichen studies in five different states of Indian Himalaya. AR (Arunachal Pradesh); HP (Himachal Pradesh), J&K (Jammu and Kashmir); UK (Uttarakhand) and SK (Sikkim)

Temporal Pattern of Publications

With regard to the number of studies (Figure 8.2), only five articles had been published until the 1950. The increasing trend in publishing articles in the recent years, indicate the increased scientific efforts given on the lichen in IHR region. Indeed more than half of the studies were published from 2001 onwards. During the relevant period (2001-2016), the majority of these studies have been published in the national, international and regional journal covering different aspect of studies on lichens. Only five works were published as Ph.D. thesis, out of 309 citations presented in this chapter.

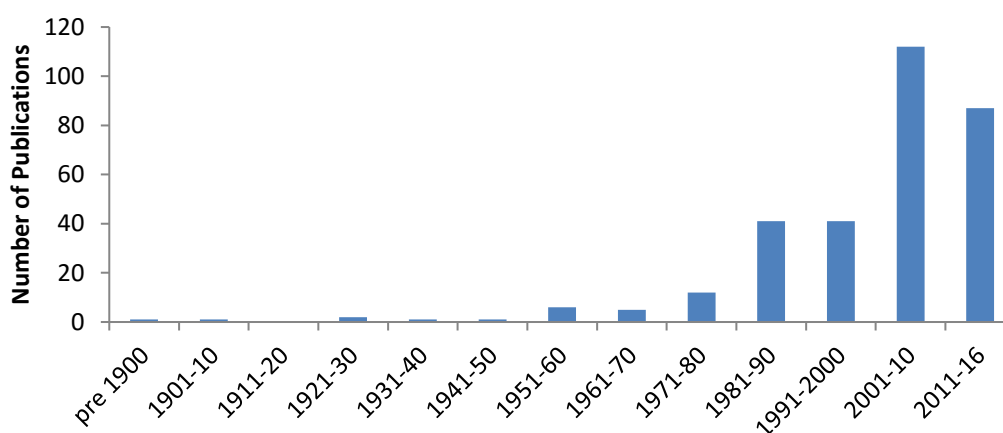


Figure 8.2 Temporal pattern of published work for lichens of Indian Himalayan region.

Publication by subject focus

Publications were categorized according to the broad subject of the study and subdivided in to following themes. The articles covering one or more categorized subject/focus areas e.g. new species as well as new generic record for country/region were treated as two different subject covered in one article (Fig. 8.3)

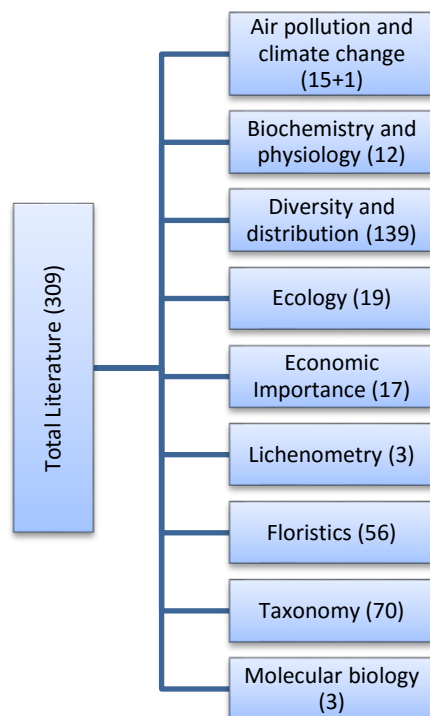


Figure 8.3 Publication on lichens by subject focus in IHR.

2. FUNGI

Fungi are one of the most important functional group of soil microbes and perform essential roles in the functioning of the ecosystem (Hawksworth et al. 1996; Sharma et al., 2015). Fungi live, multiply and die or disintegrate in the soil, as well play a pivotal role in nutrient cycling and thus they provide rich organic matter. Fungi are useful as indicators of environmental changes or disturbances resulting from natural or anthropogenic causes, such as elevated carbon dioxide levels and global warming (Sharma et al., 2015). In India, studies on fungal diversity in relation to habitat, climate and altitudinal gradient is rare (Pandey et al. 2006, Satish et al. 2007). This bibliography comprises the available studies fungi in Indian Himalayan Region, particularly the trend of research with time and the knowledge gap.

Result and Discussion

The bibliography on soil fungi of IHR includes 114 unique entries covering a period of almost 6 decades, starting from 1966 to 2016. We categorized the articles in three distinct ways: A) Parts of eight Himalayan states where the studies were carried out (Table 8.1). B) Their publication dates, in which the studies were grouped in 10-year intervals from 1966 to 2016; this enabled us to see the research trends and patterns. C) The subject focus of the research e.g. ecology, ethnomycology, taxonomy, biochemical analysis, climate change on which the research was carried out.

Table 8.1 State wise distribution of publications

State	No. of publications	Himalayan zone, IHR	No. of publications
Uttarakhand	47	Western Himalaya	9
Himachal Pradesh	21	Western Himalaya	4
Jammu & Kashmir	19	North-western Himalaya	2
Sikkim	8	Central Himalaya	2
West Bengal	3	Central Himalaya	
Arunachal Pradesh	1	Eastern Himalaya	

Temporal Pattern of Publications

Globally, there have been studies on soil fungi focusing effect of environmental changes apart from ecology, taxonomy and pathogenicity, biochemical analysis. But in Indian Himalayan region there has been studies on ecology, ethnomycology, taxonomy and biochemical analysis. Temporal trend on publication shows that an increasing trend of publication over years with maximum being between 2011-2016 and least between 1961-1980 (Fig 8.4). The majority of publication between 2011-2016 focuses on diversity and distribution, new records of fungal species from different parts of IHR.

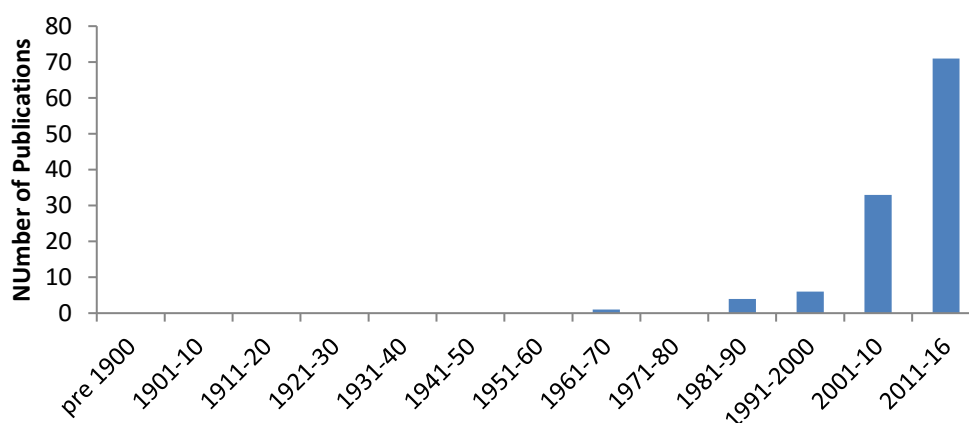


Figure 8.4 Temporal pattern of publication on soil fungi of Indian Himalayan Region

Publication by subject focus

The broad subject areas of publication are ecology, taxonomy, biochemical analysis, ethanomycology and climate change. Publications dealing with ecology mainly comprise functional, stress and community ecology. Taxonomic studies comprise isolation and characterization of soil fungi. Not a single study has been found on climate change (Fig. 8.5).

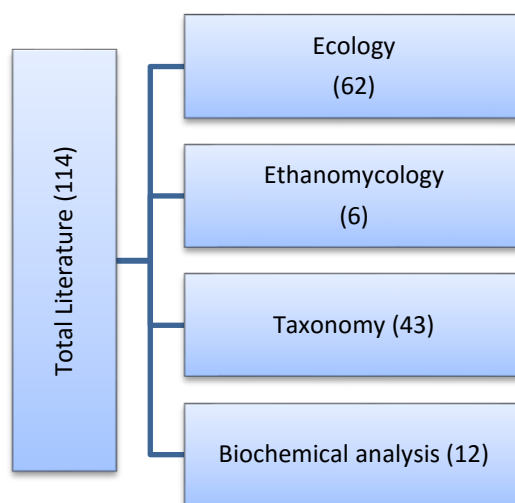


Figure 8.5 Publication on Fungi by subject focus in IHR.

3. BACTERIA

Bacterial communities are the most abundant group of microorganisms present in soil. They play important role in bio-geochemical processes such as nutrient cycling, soil organic matter decomposition, nitrogen formation, soil structure formation (Prosser, 2007), and maintain required soil health for plant and microbial growth (Hill et al., 2000). Investigation of soil bacterial diversity in extreme environments has gained major attention globally due to their unique functional properties (Madigan, 2000). Indian Himalayan region (IHR) is a large reservoir of soil bacterial species. However, information on soil bacteria from this region is relatively sparse in comparison to other floral and faunal taxa. Previous studies on soil bacteria in IHR have mainly focused on isolation and identification of species from cold regions, agricultural fields and hot springs with characteristic properties beneficial for nutrient cycling, agriculture and biotechnological applications. Notable species identified include psychrotolerant phosphate solubilizing *Pseudomonas* spp. (Pandey et al., 2006; Vyas et al., 2009; Selvakumar et al., 2011), psychrotolerant plant growth promoting *Pseudomonas* spp. (Mishra et al., 2008; Selvakumar et al., 2009; Selvakumar et al., 2011; Suyal et al., 2014), *Rhizobium* sp. (Mishra et al., 2011), *Acinetobacter* sp. (Gulati et al., 2009), *Exiguobacterium*

spp. (Kasana and Yadav, 2007; Selvakumar et al., 2010) and *Pantoea* sp. (Selvakumar et al., 2008), psychrotolerant *Serratia* sp. (Tariq and Prabakaran 2010), stress tolerant *Bacillus* sp. (Das and Dangar 2008), fluorescent *Pseudomonas* sp. (Arora et al., 2008; Showkat et al., 2012; Sharma et al. 2014) and *Actinomycetes* spp. with antimicrobial properties (Kaur et al. 2008).

Bacterial diversity and functions across various land use and land cover classes such as agricultural lands, forest types, alpine meadows and hot springs in IHR have received fairly recent attention. Some studies have focused mainly on photoautotrophic Cyanobacteria a group known to be the first colonizer of mountain soil (Belnap and Lange, 2001). Microhabitats such as Neoproterozoic limestone, alpine meadows and glacial forelands, lakes and hot springs have been explored to determine Cyanobacterial role in nutrient availability for pioneer vascular plant growth (Venkatachala and Kumar, 1997; Chaudhary and Kumar, 2006; Pandey, 2010; Khare et al., 2010; Bhardwaj et al., 2011, Řeháková et al., 2011; Chowdhary et al., 2013; Singh et al., 2014; Singh and Yadvinder et al., 2015; Čapková et al., 2016). Analysis of western Himalayan hot spring bacterial diversity has revealed thermotolerant species with industrially important characteristics (Kumar et al., 2014; Verma et al., 2015; Pandey et al., 2015). Recently cultivable bacterial diversity in the eastern zone was studied for microbial biodiversity conservation for first time in the IHR (Lyngwi et al., 2013; Bhattacharjee et al., 2014; Joshi et al., 2015). Although there has been focus on soil bacterial diversity and conservation, less attention has been given to understand the impact of changing climate on functional aspects of bacterial communities in the IHR.

Recently, several authors have reported new species of bacteria from IHR, viz, a tetrathionate-oxidizing bacterium *Tetrathiobacter kashmirensis* (Ghosh et al., 2005), novel *Actinobacterium* species isolated from cold regions *Rhodococcus kroppenstedtii* and *Kocuria himachalensis* (Mayilraj et al., 2006), a novel bacterial antagonist *Exiguobacterium acetylicum* strain 1P (Selvakumar et al., 2009), a Psychrophilic species *Janthinobacterium lividum* MMPP4 (Suman et al., 2015), a thermophile *Thermus parvatiensis* RLT sp. nov (Dwivedi et al., 2015). A psychrotolerant novel bacterium *Arthrobacter* sp. ERGS1, with prospective cold active industrial enzymes was reported from eastern Himalaya (Kumar et al., 2015).

The scientific literature on Himalayan soil bacteria is scantily available from dated back to late 19th century. A recently developed web based microbial database “NEMiD” provides information on cultivable soil bacterial diversity of eastern Himalayan region (Bhattacharjee et al., 2014). However, information on soil bacterial studies in entire IHR has not been compiled comprehensively. This chapter is an attempt to collate all published literature on soil bacteria in IHR. It highlights the trend of research with time and the knowledge gaps.

Results and Discussion

The bibliography on soil bacteria of Indian Himalayan Region includes 218 unique entries covering a period starting from 1992 to March 2016. The analysis reveals that existing literature on soil bacterial research has mostly been published from western Himalayan states of Jammu and Kashmir, Himachal Pradesh and Uttarakhand (50, 58, 86 studies respectively) (Table 8.2, Figure 8.2). Eastern Himalayan states have shown growing research interest in soil bacteria in last 8 years (Table 8.1, Figure 8.2). However, it is only recently (last 6 years) soil bacterial research has rapidly increased in the entire IHR compared to the past

(Table 8.2, Figure 8.6). This indicates that exploration of soil bacterial diversity from diverse ecological niches in the IHR is a very recent research area in comparison to other floral and faunal taxa.

Table 8.2 Available references on soil bacteria from six Himalayan states from 1990 till 2016.

Time period	No of literature published from six Himalayan states						Total in each interval
	J&K	HP	UK	WB	SK	AR	
1990 – 1995			2				2
1996 – 2000	1		1				2
2001 – 2005	1	2	3				6
2006 – 2010	5	16	25	2	1		49
2011 – 2016	43	40	55	5	11	12	166
Total literature	50	58	86	7	12	12	

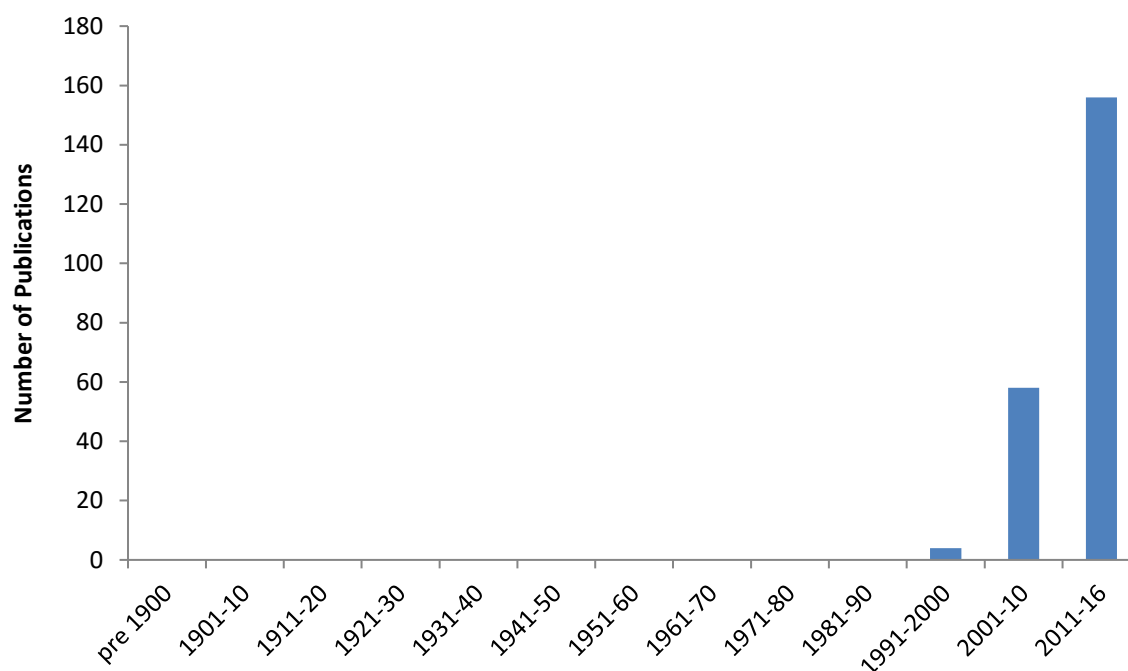


Figure 8.6 Temporal pattern of publication on soil bacteria of Indian Himalayan Region

Thematic coverage

Major subject focus on soil bacterial research has been on applied and functional research, taxonomy, ecology, bacterial genetics/genomics and biodiversity conservation (Fig. 8.7). Applied and functional research include investigation of soil bacterial diversity in different

ecological niches along altitudinal gradients for isolation and identification of biotechnologically and agriculturally potential strains and novel species (Kasana and Yadav, 2007; Duraipandiyar et al., 2010; Bharti et al., 2010; Saba et al., 2012; Sharma et al., 2014; Kshetri et al., 2015). Biotechnological applications include identification of new pharmaceutical products (Kaushik and Chauhan, 2008), characterization of new industrially significant enzymes (Nawani and Kaur, 2007; Joseph et al. 2012; Rahul et al. 2013; Yadav et al. 2015) and new organisms that carry out novel processes (Kaur et al., 2008; Sharma et al. 2016). Many of the bacterial species identified from agricultural fields have displayed enhanced plant growth promoting activities (Mishra et al., 2008; Gusain et al., 2015).

Several bacterial communities from agricultural lands, hot springs, high altitude regions have been analysed for molecular markers such as 16S rRNA and nifH genes, for novel species identification, taxonomy/diversity analysis and conservation purpose (Singh et al. 2010; Salwan et al., 2010; Shivaji et al. 2011; Kumar et al., 2012; Rajwar et al., 2014; Yadav et al. 2015; Čapková et al. 2016; Soni et al., 2016). Genetic variability of functionally significant bacterial species have been analysed for molecular characterization (Sharma et al. 2005; Vyas et al., 2009; Verma et al. 2014). Some bacterial genomes have been sequenced from novel species isolated from extreme environments for better insight into their novel properties, such species are *Arthrobacter alpinus* ERGS4: 06, a yellow pigmented bacterium tolerant to cold and radiations (Kumar et al. 2016), *Chryseobacterium polytrichastri* ERMR1: 04, a psychrotolerant bacterium with cold active proteases (Kumar et al. 2015), *Arthrobacter* sp. ERGS1: 01, a putative novel bacterium with prospective cold active industrial enzymes (Kumar et al. 2015) and cellulase-producing psychrotrophic *Paenibacillus* strain, IHB B 3415 (Dhar et al. 2015).

Ecological studies conducted so far include bacterial population dynamics, impact of seasonal changes and degrees of slopes and aspect on bacterial population, effect of alien invasive plant species on bacterial species, impact of different land use and crop rotation, environmental interaction and survival strategies of bacterial communities (Shail et al. 1997; Chaudhary and Kumar, 2006; Das and Dangar, 2008; Selvakumar et al. 2009; Rasool and Nazima, 2011; Reshi et al., 2013; Arunkumar et al., 2013; Pandey, 2013; Singh et al., 2014; Swer et al., 2014; Solaiman et al. 2015). Although focus have been made to understand soil bacterial ecology in this region, limited attention has been given to understand the response of soil bacterial communities to changing climatic variables (Table 8.3). In order to address the threats of climate change in the IHR, it is essential to conduct long term research focused on soil bacterial community responses to changing temperature and precipitation across major eco-climatic regions and habitats.

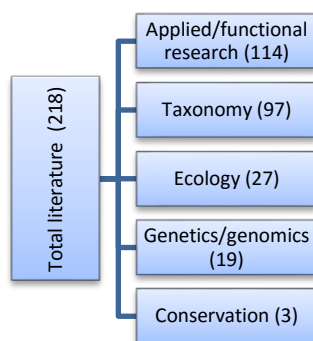


Figure 8.7 Number of publications on soil bacteria in different subject focus in IHR.

Table 8.3 The key past and future research priorities based on the current assessment

Subject Area	Key past research priorities	Research Gap and future priorities
Applied and functional research	Species functional characterization	Bacterial processes involved in key greenhouse gases production, such as carbon dioxide emission from soil organic carbon degradation, methane production from wetlands and nitrous oxide from agricultural lands, requires much attention. These processes contribute as well as respond rapidly to climate change (Singh et al., 2010). Characterization of bacterial enzymes involved in these processes will provide better understanding of climate change impacts in IHR.
	Agriculturally important function characterization	
	Industrially important enzymes characterization	
	Method development	
Taxonomy	Species isolation, identification and characterization	Research focused at phylogenetic classification and characterization of bacterial communities with respect to changing temperature and precipitation in climate sensitive regions will provide valuable insights into microbial indicators of climate change (Allen et al., 2011).
	Phylogenetic classification	
Ecology	Species distribution	Future research aimed at soil bacterial population dynamics, community composition, distribution and function under changing climatic variables in the IHR will provide indepth understanding of soil bacterial responses to environmental change (Evans et al., 2014).
	Survival strategies	
	Population dynamics	
	Environmental interaction	
Bacterial genetics / genomics	Genetic diversity	Genome sequencing and genetic diversity analysis of bacterial species in climate sensitive ecological niches in the IHR will improve mechanistic understanding of climate change impacts on bacterial regulation of ecological processes (Singh et al., 2010).
	Genome sequencing	
Conservation	Diversity conservation	Isolation and cryo-preservation of soil bacterial species from extreme climate sensitive region of IHR will help us in conserving species with unique properties.
	Cryo-preservation	
Impact of climate change on bacterial communities	No studies conducted	–

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Author Index

Lichen

- Acharya, A.
051
- Ahti, T.
001, 002, 003, 024
- Akhtar, P.
004, 005, 025, 026
- Anna, V.
006
- Aptroot, A.
277
- Arora, R.
113
- Asahina, Y.
007
- Aslam, M.
116
- Awasthi, D.D.
005, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018,
019, 020, 021, 022, 023, 024, 025, 026, 027, 028, 029, 030,
031, 032, 033, 034, 035, 036, 037, 038, 039, 041, 080, 144,
145, 146, 147, 148, 237, 238
- Awasthi, G.
027, 040, 041
- Babiah, P.S.
042
- Babington, M.C.
043
- Bajaj, A.K.
142
- Bajpai, R.
044, 045, 100, 170, 187, 200, 211, 232, 278
- Bajpai, T.
197
- Baleshwar
178
- Baniya, C.B.
046, 161
- Bhat, G.A.
075
- Bhatia, K.K.
047
- Bhatt, A.B.
234, 235
- Bhattacharya, P.
072
- Bisht, K.
089, 092, 094
- Bisht, S.
048
- Bisht, S.S.
048
- Biswas, K.
049
- Biswas, M.
239
- Borthakur, S.K.
154
- Budel, B.
279
- Bujarbarua, P.
215, 226
- Chandra, K.
088
- Chandra, S.
216
- Charak, S.
050
- Chatterjee, S.
051, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289
- Chauhan, A.S.
243, 244, 245
- Chaujar, R.K.
052
- Chaurasia, O.P.
113, 114, 115
- Chopra, G.L.
053
- Czczuga, B.
054
- Dange, K.
028
- Dar, S.
252
- Das, P.
087, 098
- Datt, B.
263
- Dhar, A.
252



- Dhar, P.
113, 115
- Dikshit, A.
142
- Divakar, P. K.
307, 308
- Divakar, P.K.
055, 056, 057, 058, 059, 060, 061, 062, 063, 064, 093, 119,
288, 289, 290, 291, 292, 293
- Dixit, P.K.
001, 215
- Dubey, A.
211
- Dubey, U.
065, 102, 133, 177, 294
- Dudgeon, W.
066
- Dwivedi, A.
121
- Elix, J.A.
056, 064, 246
- Gadgil, M.
139
- Gaur, R.D.
067
- Ghimire, G.P.S.
046
- Goni, R.
068, 069, 070
- Gupta, D.
113
- Gupta, P.
071
- Gupta, R.K.
072, 102, 103, 127, 160, 161, 162, 165, 166
- Gupta, S.
072
- Haq, M.U.
073, 074
- Haridash, B.
125
- Hota, S.
114
- Hussan, A.
075, 076, 159, 183
- Jagadeesh Ram, T.A.M.
077, 212, 247
- Jagtap, V.
078
- Jakhal, A.
157
- Jha, A.B.
051
- Jinnah, Z.
094
- John, S.A.
042
- Jorgensen, P.M.
079
- Joshi, M.
029, 030, 031, 080
- Joshi, S.
081, 082, 083, 084, 085, 121, 180, 295, 296, 297
- Joshi, Y.
078, 086, 087, 088, 089, 090, 091, 092, 093, 094, 095, 096,
097, 098, 099
- Karakoti, N.
100, 170
- Karnefelt, I.
260
- Kattel, B.
046
- Khan, S.I.
101
- Khare, R.
072, 102, 103, 114, 115, 131, 161, 162, 163, 164
- Kholia, H.
104, 105
- Klement, O.
181
- Kour, R.
252
- Kumar, A.
142
- Kumar, B.
106, 107, 108, 109, 110, 111, 112
- Kumar, J.
113, 114, 115
- Kumar, K.
213
- Kumar, M.
048
- Kumar, S.
116
- Kumar, V.



- 048, 116
Kumari, R.
188
Lai, B.
117
Lumbsch, T.L.
132
- Lyudmyla, D.
006
Magotra, R.
068, 069, 251
Mahar, K.S.
232, 263
Makhija, U.
118
Mathur, R.
032
McCune, B.
119
Meena, B.
263
Mehta, K.A.
251
Mishra, G.
178
Mishra, G.K.
104, 105, 120, 121, 122, 123, 124, 125, 126, 298
Mishra, R.K.
142
Misra, S.
055
Nag, P.
127, 160, 165
Nagarkar, M.B.
128, 129, 152
Naik, B.
116
Nair, K.N.
178, 263
Nautiyal, B.P.
048
Nayaka, A.
074
Nayaka, S.
003, 044, 085, 100, 103, 125, 126, 127, 130, 131, 132, 133,
134, 135, 163, 169, 194, 201, 253, 255, 278, 292, 293, 294,
296, 297, 298, 299, 300, 301, 302, 303
- Nayaka, V.
136
Nayal, S.
089
Negi, H.R.
137, 138, 139, 140, 304, 305
Negi, H.S.
306
Obermayer, W.
054, 141
- Pal, A.
143
Pandey, A.
142
Pandey, V.
143
Pant, G.
144, 145, 146, 147, 148, 149, 150
Pant, V.
151, 307, 308
Patel, D.K.
188, 197, 198, 199, 202, 203, 204
Pathak, R.
143
Pathre, U.V.
136
Patwardhan, P.G.
118, 128, 129, 152
Pinokiyo, A.
153, 154, 155, 156, 215, 217, 218, 219, 220, 230
Prasad, R.
051
Prasad, S.
199
Prasher, I.B.
157
Punetha, N.
083, 084, 085, 121, 126
Punjani, B.
133
Pusalkar, P.
157
Qureshi, A.A.
158
Rahim, A.
076, 159
Rai, H.



- 006, 072, 102, 114, 115, 127, 160, 161, 162, 163, 164, 165,
166, 261, 262
- Raina, A.K.
050, 068, 101, 159, 182, 183, 184, 185, 186
- Raina, A.K.P.
069
- Rajwar, G.S.
171
- Ram, J.T.A.M.
167, 168
- Ram, T.J.
090, 221
- Rana, K.
169
- Rana, T.S.
178, 232, 263
- Randlane, T.
260
- Rani, M.
170, 171
- Ranjan, M.
309
- Ranjan, S.
136
- Rasanen, V.
172
- Rathore, M.S.
252
- Rawall, J.
133
- Rawat, S.
173, 174, 175, 176
- Reshi, Z.A.
073
- Rout, J.
065, 177
- Roy, S.
178
- Saag, A.
260
- Sahaf, K.A.
252
- Saklani, A.
179
- Sati, S.C.
099, 180
- Saxena, P.
136
- Schubert, R.
181
- Semwal, M.
045, 197
- Sharma, L.R.
054
- Sharma, N.
068, 070, 187, 254
- Sharma, P.K.
072
- Sharma, S.
048, 182
- Sheikh, M.A.
050, 073, 074, 075, 076, 183, 184, 185, 186
- Shukla, P.
169, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 261,
262
- Shukla, V.
045, 171, 197, 198, 199, 200, 201, 202, 203, 204
- Singh, A.
205, 206, 207, 208, 209, 210, 310
- Singh, C.P.
187
- Singh, D.
116
- Singh, G.P.
231
- Singh, J.
051, 211
- Singh, J.S.
155, 156
- Singh, K. P.
212
- Singh, K.K.
213
- Singh, K.P.
001, 033, 034, 077, 153, 154, 155, 156, 214, 215, 216, 217,
218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229,
230, 231, 233, 234, 235, 248, 249, 250
- Singh, N.
232, 263
- Singh, P.
090, 222, 223, 233, 234, 235
- Singh, R.
136
- Singh, R.P.
174, 175, 176, 211
- Singh, S.P.
112



Singh, S.R.	142
035, 236, 237, 238	
Singha, S.N.	Tiwari, A.
239	112
Sinha, G.P.	Tiwari, L.
001, 056, 064, 071, 077, 090, 167, 168, 212, 221, 224, 225, 226, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250	104, 105
Solan, S.	Tiwari, P.
251	261, 262
Srinivasulu, Y.	Tiwari, V.
252	232, 263
Srivastava, K.	Tripathi, A. M.
072	178
Srivastava, P.	Tripathi, M.
036, 037	078, 088, 089, 091, 092, 093, 094
Srivastava, R.	Tripathi, R.
135, 253, 254, 255	202
Srivastava, R.B.	Trivedi, S.
113, 114, 115	261, 262
Stirton, J.	Upreti, D.K.
256	002, 003, 006, 039, 042, 044, 045, 046, 050, 054, 055, 056, 057, 058, 059, 060, 061, 062, 063, 064, 065, 072, 073, 082, 083, 084, 085, 087, 089, 092, 093, 094, 095, 096, 097, 098, 099, 100, 101, 102, 103, 104, 105, 111, 112, 113, 114, 115, 117, 119, 121, 122, 123, 124, 125, 126, 127, 130, 131, 132, 133, 134, 135, 136, 140, 143, 149, 150, 160, 161, 162, 163, 164, 165, 166, 169, 170, 171, 173, 174, 175, 176, 177, 178, 179, 182, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 208, 209, 210, 211, 213, 220, 229, 230, 232, 253, 254, 255, 258, 259, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309
Strachey, R.	Wadhwa, B.M.
257	231, 250
Swarnlatha, G.	Xiang-Qun, G.
227, 228	260
Tamta, S.	Yadav, V.
263	134, 135, 253, 254, 255, 303
Tayade, A.	Yunus, M.
114	198, 199, 200, 204
Tayade, A.B.	Zafar, A.R.
113, 115	074
Tewari, L.M.	
195, 196	
Tewari, R.	
038	
Tewari, V.	
258, 259	
Thell, A.	
260	
Tiwar, A.K.	

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Bacteria of the Indian Himalayan Region

01. Agarwal, P.K.; Rai, S.K.; Agarwal, S.; Chandra, H. (2013). Study of genotypic diversity of Rhizobia from legume crops and its application as a bioinoculant in sustainable agricultural development. *Asian J. Exp. Biol. Sci.* 4(3): 437-441.
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Author Index

Bacteria

- Abbasi, M.K.
093, 218
- Abdin, M.Z.
003
- Abid, S.
170
- Adak, A.
198
- Adgaba, N.
161
- Agarwal, M.
092
- Agarwal, P.K.
001
- Agarwal, S.
001
- Agrawal, R.
002
- Ahmad, A.
057
- Ahmad, N.
003
- Ahmed, K.
035
- Ahmed, N.
018, 135
- Ajit, N.S.
154
- Al-Ghamdi, A.
161
- Al-Waili, N.
161
- Alam, S.I.
041, 042, 149
- Ali, A.
169, 170
- Ali, M.
018, 019
- Ambardar, S.
004, 005
- Anawar, H.M.
181
- Ansari, M.J.
161
- Arora, D.K.
136, 171, 199
- Arora, N.K.
006
- Aruleslvi, P.I.
134
- Arunachalam, A.
014
- Arunachalam, K.
014
- Arunkumar, K.
007
- Arunkumar, R.D.S.
008
- Arvind, G.
009
- Arya, M.
010
- Awasthi, G.
124
- Baba, A.
011
- Babu, B.K.
136
- Babu, C.R.
188
- Babu, N.P.
054
- Bafana, A.
012, 080
- Bagchi, A.
043
- Baghela, V.S.
013
- Baker, P.
112
- Balasubramanian, D.
014
- Bandh, S.A.
015, 151, 152
- Banerjee, A.
064
- Banerjee, S.
021, 063
- Bansod, S.
041
- Bar, G.H.
015
- Bareh, D.A.
064
- Batra, N.
020
- Begum, K.H.
168
- Begum, Z.



121

Bezbaruah, R.L.
026

Bhar, R.A.
015

Bhardwaj, K.N.
016

Bharti, A.
017

Bhat, M.A.
170

Bhatia, A.
018, 019

Bhatia, S.
020

Bhatt, A.B.
060, 062, 081

Bhatt, J.C.
061, 101

Bhatt, J.P.
065

Bhattacharjee, K.
021, 022, 063, 064

Bhople, B.S.
175

Bhople, M.A.K.
008

Bhoriyal, M.
087

Bhushan, V.
078

Bindu, G.H.
148

Bisht, A.
023

Bisht, B.S.
075

Bisht, G.S.
017, 088

Bisht, J.K.
061, 101, 102, 142, 143, 144

Bisht, S.
025, 185

Bisht, S.C.
024, 101, 102

Bora, T.C.
026, 034

Bordoloi, R.
026

Capkova, K.
027, 131

Chakraborty, B.N.
028, 191, 192

Chakraborty, U.
028, 191, 192

Chamoli, S.
110

Chandel, S.
069

Chandra, H.
001

Chandra, S.J.
108

Chatlod, L.R.
109

Chaudhry, S.
110

Chaudhury, M.K.
029

Chauhan, A.
020, 047, 048, 049, 070, 076, 099

Chauhan, S.
009

Chaurasia, B.
114

Chawla, I.
009

Choudhary, K.K.
030

Choudhary, V.S.
110

Chronakova, A.
131

Dam, B.
043

Dangar, T.K.
031, 032

Dar, G.H.
056

Dar, P.A.
133

Dar, R.A.
135

Das, A.K.
014

Das, J.
031, 032

De, D.
033, 104

Debnath, R.
034

Debnath, S.
035

Dekabaruah, H.P.
026

Deopa, P.
036

Deshmukh, R.K.
068



- Dev, K.
190
- Devi, S.S.
045
- Devi, U.
037
- Dey, P.
192
- Dey, P.L.
028
- Dey, R.
216
- Dhakar, K.
111, 139
- Dhaliwal, H.S.
103
- Dhar, H.
038
- Dhauni, N.
087
- Dhawan, S.
176
- Dheeman, S.
092
- Dkhar, M.S.
178, 196
- Dohroo, N.P.
155
- Dolezal, J.
027, 131
- Dubey, R.C.
153
- Duraipandian, V.
039
- Dwivedi, B.S.
035
- Dwivedi, V.
040
- Dwivedial, S.
013
- Fatma, A.
173
- Ganeshmurthy, A.N.
148
- Gangola, S.
157
- Gangwar, P.
041, 042
- Garg, N.
040
- Gautam, S.P.
160
- Ghosh, W.
043
- Gill, P.K.
103
- Giri, K.
044
- Goel, R.
087, 182, 183, 184, 193, 194, 195
- Gopale, K.
013
- Gowdaman, V.
204
- Goyari, S.
045
- Green, S.J.
020
- Gulati, A.
038, 046, 123, 137, 180, 211
- Guleria, S.
047, 048, 049, 076
- Gunasekaran, P.
004, 050
- Gupta, A.
216
- Gupta, A.D.
145, 146, 147
- Gupta, A.K.
010
- Gupta, G.
095
- Gupta, H.S.
141, 142, 143, 144, 146, 147
- Gupta, P.
050, 051
- Gupta, S.
155, 190
- Gupta, S.K.
040, 162
- Gupta, V.
138
- Guptal, H.S.
145
- Gusain, M.P.
185
- Gusain, O.
017, 088
- Gusain, O.P.
185
- Gusain, Y.S.
052
- Hafee, F.Y.
093
- Hameed, S.
218
- Hamid, B.
011
- Handique, P.J.
034



- Hauer, T.
027
- Ignacimuthu, S.
039, 054
- Ingle, S.S.
119
- Ishaq, F.
053
- Ishaq, M.
177
- Islam, V.H.
039, 054
- Jain, N.K.
112
- Jaind, R.K.
013
- Jaiswal, P.K.
055
- Jan, S.
056
- Jani, K.
158
- Jansson, J.K.
202
- Jehangir, A.
057
- Johri, B.N.
058
- Johri, S.
003
- Joseph, B.
059
- Joshi, A.
020
- Joshi, G.K.
010, 024, 025, 061, 065, 066, 101, 144
- Joshi, P.
060, 061, 062, 141, 142, 143, 144, 146, 147
- Joshi, S.R.
021, 022, 063, 064, 090
- Joshi, V.D.
075
- Jugran, J.
065, 066
- Kainthola, A.
016
- Kalita, M.C.
045
- Kamal, R.
052
- Kamili, A.N.
015, 056, 151, 152
- Kamraj, S.
124
- Kanaujia, N.
080
- Kang, S.C.
006
- Kapoor, R.
123
- Kasana, R.C.
038, 046, 067, 137
- Katara, J.
068
- Kaur, J.
106, 155, 176
- Kaur, M.
069, 165
- Kaur, S.
068
- Kaushik, M.S.
174
- Kaushik, P.
070
- Kaushik, R.
089, 136, 171, 199, 214
- Kazmi, A.A.
018, 019
- Khan, A.
053
- Khan, I.
056
- Khan, K.A.
161
- Khan, M.A.
175
- Khannam, K.S.
207, 208
- Khare, A.
071
- Kharel, E.
006
- Khati, P.
157
- Khattar, J.I.S.
180
- Khaund, P.
063
- Khewa, S.
072, 104
- Khurana, J.P.
138
- Kishore, K.H.
121, 168, 187
- Koijam, K.
063, 090
- Krishnamurthi, S.
097
- Kristufek, V.



- 131
- Kroppenstedt, R.M.
098
- Kshetri, L.
073
- Kuchtova, B.
131
- Kudryavtsev, A.B.
140
- Kulkarni, G.
159
- Kumar R.
074
- Kumar, A.
010, 075, 076, 077, 078, 175, 203
- Kumar, B.
079, 095, 111, 113, 114, 159, 200
- Kumar, G.
080, 157
- Kumar, L.
124
- Kumar, M.
029, 071, 081, 082, 083, 216
- Kumar, R.
044, 084, 085, 125
- Kumar, R.B.
149
- Kumar, S.
035, 074, 084, 085, 086, 087, 207, 208, 210
- Kumar, V.
017, 088, 186
- Kumari, K.
040
- Kumari, P.
089, 199
- Kumari, R.
040
- Kundu, S.
141, 145, 146, 147
- Lade, H.
120
- Laila, O.
169
- Lal, R.
004, 138
- Lambert, C.
138
- Lata, P.
040
- Lone, S.A.
107
- Lyngwi, N.A.
063, 090
- Madan, S.
018, 019
- Maharana, A.K.
091
- Maheshwari, D.K.
006, 092
- Mahmood, T.M.
093
- Malviya, M.K.
094, 095, 110
- Manda, S.
043
- Manjula, A.
004, 050
- Manzoor, A.S.
132
- Maurya, J.N.
096
- Maurya, S.S.
096
- Mayilraj, S.
097, 098
- Meena, D.K.
044
- Mehta, C.M.
052
- Mehta, P.
076, 099, 100
- Mishra, A.K.
079, 173, 174
- Mishra, G.
044
- Mishra, P.K.
024, 025, 061, 101, 102, 141, 142, 143, 144, 146
- Mishra, S.
102
- Mishra, T.
103
- Mondal, K.K.
172
- Mukhopadhyay, A.
033, 072, 104
- Murtaza, I.
169, 170
- Nain, L.
198
- Nain, P.K.
198
- Najar, G.R.
177
- Nannipieri, P.
202
- Naosekham, A.S.
210
- Narkhede, S.
105



Narkhede, S.S. 105	020
Naruka, D.S. 156	Pathania, R. 018, 019
Nawani, N. 106	Patra, A.K. 007, 008, 035, 175
Nazim, S. 141, 142, 143, 146, 147	Paul, D. 120
Nazir, R. 015	Peer, F.A. 177
Nimje, A. 008	Pindi, P.K. 121
Nongkhlaw, F.M. 063	Prabakaran, S.R. 204
Oh, J.H. 006	Prabakaran, J.J. 197
Padaria, J.C. 107	Pradhan, S. 121, 187
Pal, K.K. 216	Prasad, R. 210
Pallavi, P. 108	Prasanna, R. 082, 083, 216
Palliwal, G.S. 081	Prashad, D. 165
Palni, L.M.S. 079, 110, 112, 113, 114, 118	Pratibha, M.S. 168, 187
Panda, B. 109	Pratish, A. 077
Panda, J. 109	Priti, P. 111
Pandey, A. 079, 094, 110, 111, 112, 113, 114, 139, 158, 159, 200, 201	Pruthi, V. 161
Pandey, N.N. 023	Purani, S. 119
Pandey, P. 073, 185	Qadri, Q.A. 135
Pandey, P.K. 115	Qazi, G.N. 003
Pandey, R.R. 172	Qazi, P.H. 135
Pandey, S. 044	Rahi, P. 009, 122, 123, 180, 211
Pandey, V.D. 096, 116, 117	Rahim, N. 218
Pandikumar, P. 054	Rahman, F. 112
Pandy, A. 095, 118	Rahman, H. 109
Panjiar, N. 207	Rahni, P. 046
Panneerselvam, P. 148	Rahul, S. 124
Patel, K.D. 119	Rai, A.K. 125
Pathak, A.	Rai, J.P.N. 044



- Rai, R.
126
- Rai, S.K.
001
- Raia, U.N.
013
- Raibole, M.
127
- Rajendhran, J.
004, 050
- Rajkumar, S.
155, 156
- Rajwar, A.
128
- Ram, G.
103
- Ramteke, P.W.
013, 059
- Rana, S.
198
- Rasool, N.
129, 132, 133
- Rather, S.A.
135
- Raturi, A.
010
- Rawar, S.
078
- Rawat, N.
066
- Rawat, S.
130
- Ray, P.
091
- Reddy, S.R.
108
- Reddy, V.K.
108
- Rehakova, K.
027, 131
- Rehman, W.
133
- Reshi, Z.A.
057, 132, 133
- Reyaz, A.L.
134
- Roy, P.
043
- Ruwari, P.
101
- Saba, I.
135
- Sachan, S.G.
213, 214, 215
- Saha, A.
028
- Saha, P.
097
- Sahay, H.
136, 171
- Sahgal, M.
128
- Sahoo, J.
018, 019
- Sahu, S.K.
007, 008, 175
- Sai, S.
184
- Saikia, N.
026
- Saikia, R.
026, 034
- Sailaja, B.
168
- Saini, A.K.
037
- Saini, H.K.
098
- Saini, H.S.
097
- Salwan, R.
137
- Samanta, R.
115
- Sandhu, S.S.
160
- Sangwan, N.
004, 138
- Saritha, M.
198
- Sarkar, K.
107
- Sarma, A.
026
- Sarma, R.K.
034
- Sasi, A.H.
039
- Sati, P.
111, 139
- Satlewal, A.
002
- Satyan, K.
189
- Saxena, A.K.
082, 083, 089, 136, 171, 199, 207, 208, 209, 213, 214, 215
- Scharfen, J.
131



- Schloter, M.
178
- Schopf, J.F.
140
- Schouhe, Y.S.
158
- Selvakumar, G.
102, 141, 142, 143, 144, 145, 146, 147, 148
- Sen, A.
126
- Sengupta, N.
149
- Shafi, S.
150, 151, 152
- Shah, M.A.
133, 151, 152
- Shail, S.
153
- Shankar, A.
065
- Shanmugam, V.
154, 155, 156, 210
- Sharma, A.
094, 110, 111, 138, 157, 158, 159, 160
- Sharma, A.D.
103
- Sharma, A.K.
052
- Sharma, D.
090, 161
- Sharma, K.
047
- Sharma, M.
162
- Sharma, M.P.
163
- Sharma, N.C.
164
- Sharma, P.
190
- Sharma, S.
165, 185, 186
- Sharma, S.D.
164
- Sharma, T.R.
162
- Sharma, V.
154
- Sharna, A.
166
- Shawl, S.
135
- Sheikh, T.A.
011
- Shirkot, C.K.
047, 048, 099, 100, 105
- Shirkot, P.
167
- Shirkot, C.K.
049, 076
- Shivaji, S.
121, 168, 187
- Shouche, Y.
193, 194, 195
- Shouche, Y.S.
145, 159
- Showkat, S.
169, 170
- Shrikot, P.
206
- Shrivastava, A.
157
- Shukla, L.
209
- Sigha, S.N.
013
- Singh, A.K.
038, 074, 084, 085, 168, 171, 187
- Singh, B.
069
- Singh, D.
074, 084, 085, 172
- Singh, D.P.
180
- Singh, G.
101, 172
- Singh, I.
042, 149
- Singh, K.
176
- Singh, N.
068
- Singh, P.
173, 174
- Singh, P.K.
121
- Singh, R.
089, 172, 176
- Singh, R.D.
007, 175
- Singh, R.K.
030
- Singh, R.N.
171
- Singh, S.
136, 198
- Singh, S.M.
187



- Singh, S.R.
177
- Singh, S.S.
178
- Singh, U.P.
023
- Singh, U.S.
052
- Singh, Y.
179, 180
- Singh, Y.P.
127
- Singhl, L.
041
- Sinha, S.
172
- Solai, R.P.
205
- Solaiman, Z.M.
181
- Soni, R.
182, 183, 184
- Sood, A.
185, 186
- Sood, S.
009
- Sopan, B.
008
- Sourirajan, A.
190
- Srinivas, T.N.R.
121, 187
- Srivastava, M.
078, 174
- Srivastava, N.
059
- Srivastava, P.
086
- Srivastava, S.
107
- Subramaniam, B.
188
- Subramaniam, J.
189
- Suman, A.
207, 208, 209
- Suman, R.
190
- Sunar, K.
028, 191, 192
- Suresh, K.
098
- Suyal, D.C.
044, 087, 183, 193, 194, 195
- Suyal, D.D.
184
- Suyal, P.
144
- Swarnkar, M.K.
038, 074, 084, 085
- Swer, H.
196
- Tak, I.U.R.
056
- Talukdar, N.C.
045
- Tanveer, A.
057
- Tariq, A.L.
197
- Tewari, V.C.
140
- Thakur, H.
155
- Thakur, I.S.
055
- Thakur, R.
009
- Thakur, R.L.
186
- Thounaojam, N.
073
- Tiwari, R.
082, 083, 198
- Tiwari, S.C.
016, 094, 178
- Trevors, J.T.
202
- Tripathi, B.M.
089, 171, 199
- Tripathi, C.
040
- Tripathia, R.D.
013
- Trivedi, P.
079, 095, 113, 114, 200, 201
- Tyagi, V.
062
- Vakhlu, J.
004, 005, 050, 051
- Valanarasu, M.
039
- Van Elsas, J.D.
202
- Venkatachala, B.S.
203
- Venkatachalam, S.
204, 205



Verma, A.
002, 167, 206

Verma, P.
207, 208, 209, 213, 214, 215, 216

Verma, R.
154, 156, 210

Vyas, P.
046, 211

Walia, A.
047, 048, 049, 099, 100

Walia, P.
076

Weber, K.P.
199

Yadav S.K.
067

Yadav, A.
034, 193, 194, 195

Yadav, A.N.
082, 083, 207, 208, 209, 212, 213, 214, 215, 216

Yadav, D.K.
172

Yadav, R.N.S.
115

Yarzabal, L.A.
217

Young, J.P.W.
123

Yousuf, A.R.
057

Zahid, M.
218

Zargar, M.Y.
177

Bibliography

Soil Fungi of the Indian Himalayan Region

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Author Index

Soil Fungi

- Abraham, S.P.
001, 113
- Acharya, K.
064, 072
- Adak, A.
107
- Ahanger, F.A.
016
- Anand, N.
002
- Andrabi, K.I.
041, 043
- Aneja, K.R.
080
- Arora, R.K.
003
- Arunachalam, A.
089
- Arya, P.
068
- Ashif, M.
004
- Atri, N.S.
005, 020, 051, 052
- Bargali, K.
006
- Basharat, Q.
041
- Beig, M.A.
007, 016, 094
- Beri, V.
011
- Bhandari, B.S.
037, 038, 039
- Bharat, N.K.
058
- Bhat, M.Y.
112
- Bhatt, R.P.
045, 083, 110, 111
- Bhatt, V.K.
083
- Bhutia, L.P.
008
- Bisht, D.
009, 071
- Boda, R.H.
062
- Bora, M.
013
- Buyck, B.
020
- Chakraborty, D.
021
- Chakravarti, S.K.
010
- Chander, G.
105
- Chatli, A.S.
011
- Chaturvedi, S.
012
- Chaudhary, P.
013
- Chaurasia, B.
014, 015, 102
- Choudhary, A.K.
105
- Chowdhury, P.N.
002
- Cotter, H.V.T.
021
- Dar, G.H.
007, 016, 094
- Das, A.K.
017
- Das, K.
018, 019, 020, 021, 022, 023, 108
- Das, N.
017, 067
- Deshmukh, S.K.
024
- Devi, L.S.
025, 026
- Dhakar, K.
027, 028, 029, 030, 031, 082
- Dharmesh, S.M.
073
- Dhingra, G.S.
100
- Dorjey, K.
032
- Dubey, A.
099
- Dubey, R.C.
088, 114
- Dutta, A.K.
064, 072
- Dutta, J.



- 089
- Gairola, S.
110
- Ganai, N.A.
007, 016
- Garg, A.K.
033
- Gaur, S.
034, 035
- Ghildiyal, A.
036
- Ghinga, H.S.
061
- Gosai, K.
089
- Guleri, S.
037, 038, 039
- Ishaq, F.
040
- Itoo, Z.A.
041, 042, 043
- Jain, R.
027
- Joshi, A.
030
- Joshi, B.B.
044
- Joshi, N.
013
- Joshi, S.
045, 111
- Joshi, S.R.
025, 026, 079
- Kanwar, S.S.
056
- Kathai, A.S.
099
- Kaul, T.N.
001
- Kaur, M.
103
- Kaushik, P.
034, 035
- Khan, A.
040
- Khan, N.A.
007
- Khasa, D.
085
- Khaund, P.
026
- Koranga, P.R.
061
- Kousar, S.
094
- Kumar, A.
046, 047, 097
- Kumar, B.
048, 067
- Kumar, S.
032, 049, 050, 055
- Kumari, B.
005, 051, 052
- Kumari, D.
053, 054
- Lakhanpal, T.N.
055, 098
- Lanjewar, S.
091
- Lone, F.A.
004
- Lone, S.
004
- Luka, R.S.
091
- Mahajan, S.
056, 092
- Maharana, A.K.
057
- Majeed, S.T.
041
- Malviya, M.K.
074
- Mehta, P.
058
- Mir, R.A.
062, 063, 112
- Mishra, A.K.
048
- Mishra, K.K.
059
- Mohanty, P.S.
068
- Montoya, L.
022
- Nain, L.
107
- Nain, P.K.
107
- Negi, C.S.
060, 061
- Nongkhaw, F.M.
026
- Nuytinck, J.
023, 108
- Oehl, F.
012
- Pala, S.A.
062, 063, 112



Palni, L.M.S. 009, 014, 015, 048, 069, 070, 071, 077, 102	081
Paloi, S. 064, 072	Saritha, M. 107 Sati, P. 074, 078, 082
Panda, A.K. 065	Saxena, A.K. 115
Pande, K. 101	Saxena, S. 037, 038, 039
Pande, V. 066	Semwal, K.C. 083
Pandey, A. 009, 014, 015, 027, 028, 029, 030, 031, 036, 047, 048, 067, 068, 069, 070, 071, 074, 075, 076, 077, 078, 082, 102	Shah, M.A. 084, 085, 086, 087
Pandey, R.R. 090	Shail, S. 088
Pathak, R. 099	Sharma, A. 031
Pradhan, P. 072	Sharma, A.K. 012
Prakash, A. 012	Sharma, D. 089
Purshotam, K. 104	Sharma, G. 090
Puttaraju, N.G. 073	Sharma, J.R. 022
Rana, S. 107	Sharma, K. 091
Rani, N. 095	Sharma, N. 092
Rashid, I. 086, 087	Sharma, S. 012, 093
Rathod, D. 068	Sharma, S.P. 056
Rautela, D. 099	Sharma, Y.P. 032, 049, 050
Ray, P. 057	Sheikh, F.A. 004
Reddy, M.S. 053, 054, 109	Sheikh, P. 094
Reshi, Z.A. 041, 042, 043, 084, 085, 086, 087	Shilpa, A.S. 095
Rinu, K. 030, 067, 074, 075, 076, 077, 078	Shri, R. 100
Roy, A. 072	Shukla, A.K. 089
Sachan, S.G. 115	Sindhu, B.S. 011
Safi, T.A. 016	Singh, F. 097
Saikia, P. 079	Singh, H.P. 096
Salar, R.K. 080	Singh, J. 097
Sandhu, D.K.	Singh, J.S. 101



- Singh, L.
098
- Singh, M.S.
090
- Singh, N.
003, 099
- Singh, R.
100
- Singh, R.P.
003, 059
- Singh, S.
047, 081, 097, 102, 107
- Singh, S.P.
101, 106
- Singh, T.A.
096
- Singh, Y.
103
- Somasundaram, R.
073
- Stephenson, S.L.
045, 083
- Sundriyal, R.C.
106
- Supriya, G.
104
- Suri, V.K.
105
- Swain, K.C.
065
- Tamta, S.
027
- Tewari, V.
012
- Tiwari, A.
106
- Tiwari, M.
106
- Tiwari, R.
107
- Tiwari, S.C.
074
- Trivedi, P.
048, 067
- Upadhyay, R.C.
005, 052, 053, 054
- Upadhyay, V.P.
101
- Urs, S.M.N.
073
- Van de Putte, K.
108
- Venkateshaiah, S.U.
073
- Verbeken, A.
023, 108
- Verekar, S.A.
024
- Verma, B.
109
- Verma, N.
039
- Verma, P.
115
- Verma, T.S.
105
- Vishwakarma, M.P.
110, 111
- Wani, A.H.
062, 063, 112
- Wani, B.A.
112
- Watling, R.
113
- Wiemken, A.
012
- Yadav, A.
114
- Yadav, A.N.
115
- Yadav, K.
114
- Zargar, M.Y.
004



Wildlife Institute of India

Chandrabani, Dehradun-248002, India,
Tel.: +91 135 2640111-115, Fax.: +91 135 2640117
Email.: wii@envis.nic.in; envis@wii.gov.in,
Website.: <http://wiienvs.nic.in>; <http://wii.gov.in/envis>



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Climate Change Programme (CCP)
Department of Science & Technology
Government of India

