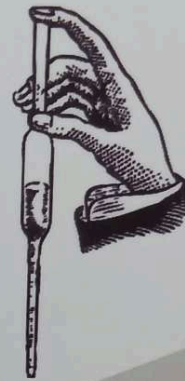


VOLUME - 2

EXPLORING THE SCIENTIFIC RESEARCH

International Book of Multidisciplinary Studies



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NEW DELHI

Published By: AkiNik Publications

*AkiNik Publications
169, C-11, Sector - 3,
Rohini, Delhi-110085, India
Toll Free (India) – 18001234070*

Editors: Dr. Nurul Islam and Dr. Md Jahirul Haque

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Publication Year: 2021

Pages: 230

Paperback ISBN: 978-93-91216-06-1

E-Book ISBN: 978-93-91216-18-4

Book DOI: <https://doi.org/10.22271/ed.book.1215>

Price: ₹ 805/-

Chapter - 14

Wetlands as Sites of Rich Bird Diversity in India-A Brief Review

Dr. Moumita Sinha

Assistant Professor, Department of Environmental Science, Nistarini College (Under SKBU),
Purulia, West Bengal, India

Abstract

Wetlands are the areas on land which are saturated with water either permanently or seasonally. Generally, wetlands remain waterlogged for a substantial period of the year. Wetlands are dynamic, productive ecosystem and are complex in nature. Wetlands are vital to the health of all other biomes, wildlife and human beings. Wetland ecosystems are treated as store house of biological diversity, supporting a wide range of plants and animals. Wetlands provide shelter to birds i.e. these are significant habitats of birds. The birds that reside in wetlands for shelter, food, reproduction and rest are generally defined as water birds. Wetlands in India are under an area of 58.2 million hectares. Wetlands in India serve as unique habitat to numerous birds including migratory species. The commonly found birds that depend on wetlands during all or part of their life cycles are shorebirds, waterfowl, raptors, loons, wading birds, cranes, kingfishers, woodcock and many songbirds.

Keywords: Wetland, birds, migratory birds, bird diversity

Introduction

Wetlands are the areas on land which are saturated with water either permanently or seasonally. Generally, wetlands remain waterlogged for a substantial period of the year. The convention on wetlands of international importance also known as Ramsar Convention framed out definition of wetlands under the text of the Convention (Article 1.1). Wetlands are defined as: "areas of marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, including areas of marine water the depth of which at low tide does not exceed six metres". Moreover, to protect coherent sites, the



Re-imaging the New Normal The Transformational lens of **Covid-19**

Dr. Rasmeet Kaur Malhi

Dr. Shumayela Hasan



Printed & Published by

THE BHOPAL SCHOOL OF SOCIAL SCIENCES (BSSS)

HABIBGANJ, BHOPAL-462024 (M.P.)



Re-imaging the New Normal the Transformational lens of Covid-19

EDITED BY

Dr. Rasmeet Kaur Malhi
Dr. Shumayela Hasan

PUBLISHED AND PRINTED BY



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Year of Publication-2020

ISBN: 978-81-945302-8-2

Published and printed by
The Bhopal School of Social Sciences

(Promoted by the Catholic Archdiocese of Bhopal)
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Impact of COVID-19 Lockdown Period on the Atmosphere of Earth- a Brief Review

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Assistant Professor
Department of Environmental Science
Nistarini College, Purulia (Under SKBU), WB
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INTRODUCTION

Our mother Earth i.e, the blue planet is going through a drastic transformation due to the spread of infectious disease COVID-19, which was declared as a 'global pandemic' by The World Health Organization (WHO) on 11 March 2020, based on the escalating rate of cases of COVID-19 across the world¹. Under the countrywide lockdown period a remarkable decline in industrial, factory activities, transportation, aviation, tourism, mining operations, and a sudden break on construction works created a big number of people jobless. To avoid social gatherings schools, colleges, educational institutions, restaurants, cinemas, shopping complexes, market places were closed, as a result of that massive stress on socio-economic circumstances of the world is being witnessed; but the other side of coin reveals the unexpectedly originated situation as a miracle for nature and environment. The slowing down of human action exerted a positive drive to the environment. The natural environment of Earth was in progress for healing itself. COVID 19 pandemic has put people in prison at home but concurrently has opened the window to nature; have fetched fresh air, which facilitated nature to breathe in

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COVID-19

Lockdown life experience

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ISBN: 9798574782170



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CHAPTER-18

COVID-19 PANDEMIC CIRCUMSTANCES AND LOCKDOWN - A NEW CHAPTER OF LIFE



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<https://doi.org/10.26524/royal.38.18>

INTRODUCTION

The suddenly and unexpectedly originated COVID-19 pandemic has divulged a radical transformation in society, economy of a nation, normal performances of human life but at the same time it has unlocked the ventilation to nature and environment which has fetched a fresh air propel towards it. The chirping of birds, dancing of butterflies, swimming of fishes, playing of adorable squirrels facilitated the nature to revivify; to restore to health. During this pandemic circumstance, for lessening the community spread of this disease, the victim countries declared lockdown whenever felt its utmost need.

During the lockdown phase, because of postponed of industrial activities, factory works, mining operations, transportation, tourism and a sudden break on construction works, huge pressure was created on nation's economy. Schools, colleges, universities, other educational institutions, restaurants, cinema halls, shopping complexes, market places were closed for long time, for staying away from social crowd; as a result of

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Emerging Trends in Scientific Research

International Book of Multidisciplinary Studies

Volume - 3

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AkiNik Publications
New Delhi

Published By: AkiNik Publications

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Rohini, Delhi-110085, India

Toll Free (India) – 18001234070

Editors: Dr. Arif Uddin, Dr. Nurul Islam and Dr. AMM Hassan

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Edition: 1st

Publication Year: 2020

Pages: 176

Paperback ISBN: 978-93-90420-98-8

E-Book ISBN: 978-93-90420-58-2

Book DOI: <https://doi.org/10.22271/ed.book.952>

Price: ₹ 745/-

Chapter - 5

Review of the Status of Natural Environment During COVID 19 Lockdown Circumstances in India

Moumita Sinha

Abstract

A radical change in environment was observed across the world during the tenure of lockdown due to the COVID 19 pandemic. It is well known that natural environment refers to the natural biotic and abiotic components of the environment while manmade environments are the artificial environments made by man. In reality the suddenly emerged COVID 19 pandemic and in consequence of that the lockdown period for a long time created serious impact on social, cultural as well as economic environment but this current paper will exclusively focus on the issue regarding natural environment. The slowing down of human action exerted an optimistic blow to the environment. Reduced emission from industries and transportation, reduced dumping of wastes from urban areas on land, reduced volumes of effluents and a break on construction activities have created miraculous pace in the clearing of pollutants in the atmosphere, soil and water. Present paper will be discussing the positive and negative side of the COVID 19 circumstances keeping in mind a special focus on the natural environment. Firstly the good effects will be illustrated.

Keywords: COVID 19, lockdown, biotic and abiotic components

Improvement of quality of aquatic system

During lockdown period in COVID 19 situation, pollution level of River Ganga and Yamuna noticeably reduced particularly in the region where industrial activities were declined. Enhanced level of Dissolve Oxygen and reduced concentration of nitrate indicated the improved quality of water. The tributaries of Ganga were also superior due to the concentration of DO increased during the lockdown period ^[1].

Water from Har-ki-Pauri in Haridwar was collected and a test was conducted by The Uttarakhand Pollution Control Board. The results revealed