



The Normalized Difference Vegetation Index

By Nathalie Pettorelli

Download now

Read Online →

The Normalized Difference Vegetation Index By Nathalie Pettorelli

There has been a recent surge of interest in remote sensing and its use in ecology and conservation but this is the first book to focus explicitly on the NDVI (Normalised Difference Vegetation Index), a simple numerical indicator and powerful tool that can be used to assess spatio-temporal changes in green vegetation. The NDVI opens the possibility of addressing questions on scales inaccessible to ground-based methods alone; it is mostly freely available with global coverage over several decades.

This novel text provides an authoritative overview of the principles and possible applications of the NDVI in ecology, environmental and wildlife management, and conservation. NDVI data can provide valuable information about temporal and spatial changes in vegetation distribution, productivity, and dynamics; allowing monitoring of habitat degradation and fragmentation, or assessment of the ecological effects of climatic disasters such as drought or fire. The NDVI has also provided ecologists with a promising way to couple vegetation with animal distribution, abundance, movement, survival and reproductive parameters. Over the last few decades, numerous studies have highlighted the potential key role of satellite data and the NDVI in macroecology, plant ecology, animal population dynamics, environmental monitoring, habitat selection and habitat use studies, and paleoecology. The chapters are organised around two sections: the first detailing vegetation indices and the NDVI, the principles behind the NDVI, its correlation with climate, the available NDVI datasets, and the possible complications and errors associated with the use of this satellite-based vegetation index. The second section discusses the possible applications of the NDVI in ecology, environmental and wildlife management, and conservation.

This practical handbook is suitable for terrestrial ecologists and conservation biologists working with remote sensing tools. It will also be of relevance and use to both graduate students in the biological and ecological sciences and specialists in the fields of conservation biology, biodiversity monitoring, and natural resource management.

[↓ Download The Normalized Difference Vegetation Index ...pdf](#)

 [Read Online The Normalized Difference Vegetation Index ...pdf](#)

The Normalized Difference Vegetation Index

By Nathalie Pettorelli

The Normalized Difference Vegetation Index By Nathalie Pettorelli

There has been a recent surge of interest in remote sensing and its use in ecology and conservation but this is the first book to focus explicitly on the NDVI (Normalised Difference Vegetation Index), a simple numerical indicator and powerful tool that can be used to assess spatio-temporal changes in green vegetation. The NDVI opens the possibility of addressing questions on scales inaccessible to ground-based methods alone; it is mostly freely available with global coverage over several decades.

This novel text provides an authoritative overview of the principles and possible applications of the NDVI in ecology, environmental and wildlife management, and conservation. NDVI data can provide valuable information about temporal and spatial changes in vegetation distribution, productivity, and dynamics; allowing monitoring of habitat degradation and fragmentation, or assessment of the ecological effects of climatic disasters such as drought or fire. The NDVI has also provided ecologists with a promising way to couple vegetation with animal distribution, abundance, movement, survival and reproductive parameters. Over the last few decades, numerous studies have highlighted the potential key role of satellite data and the NDVI in macroecology, plant ecology, animal population dynamics, environmental monitoring, habitat selection and habitat use studies, and paleoecology. The chapters are organised around two sections: the first detailing vegetation indices and the NDVI, the principles behind the NDVI, its correlation with climate, the available NDVI datasets, and the possible complications and errors associated with the use of this satellite-based vegetation index. The second section discusses the possible applications of the NDVI in ecology, environmental and wildlife management, and conservation.

This practical handbook is suitable for terrestrial ecologists and conservation biologists working with remote sensing tools. It will also be of relevance and use to both graduate students in the biological and ecological sciences and specialists in the fields of conservation biology, biodiversity monitoring, and natural resource management.

The Normalized Difference Vegetation Index By Nathalie Pettorelli Bibliography

- Sales Rank: #2265990 in Books
- Published on: 2014-02-01
- Original language: English
- Number of items: 1
- Dimensions: 7.60" h x .70" w x 9.80" l, 1.45 pounds
- Binding: Hardcover
- 224 pages

 [Download The Normalized Difference Vegetation Index ...pdf](#)

 [Read Online The Normalized Difference Vegetation Index ...pdf](#)

Editorial Review

Review

"It is clearly a system with enormous potential, and a tool that needs to be taken into account with other data sets in monitoring vegetation changes from the local to a global scale." --*Biodiversity and Conservation*

About the Author

Nathalie Pettorelli, *Institute Research Fellow, Institute of Zoology, Zoological Society of London*

Nathalie Pettorelli is a research fellow working at the Institute of Zoology, Zoological Society of London. Her research is focused on the impact of climate change on ecosystem functioning and mammalian population dynamics in alpine, arctic, and tropical environments. She has published 47 peer-reviewed articles and is on the editorial boards of *Journal of Applied Ecology* (Associate Editor since 2007) and *Animal Conservation* (Associate editor since 2008, Editor since 2011). Since 2002 her research has focused on satellite-based data, and in particular on its role in understanding the impact of global environmental change on wildlife. For this work, she was awarded a L'Oreal UNESCO Fellowship in 2010.

Users Review

From reader reviews:

Catherine Williams:

Do you considered one of people who can't read pleasant if the sentence chained in the straightway, hold on guys this aren't like that. This The Normalized Difference Vegetation Index book is readable simply by you who hate those perfect word style. You will find the data here are arrange for enjoyable looking at experience without leaving also decrease the knowledge that want to supply to you. The writer involving The Normalized Difference Vegetation Index content conveys thinking easily to understand by most people. The printed and e-book are not different in the written content but it just different available as it. So , do you nonetheless thinking The Normalized Difference Vegetation Index is not loveable to be your top collection reading book?

Jacob Roberts:

A lot of people always spent their own free time to vacation or even go to the outside with them family members or their friend. Do you realize? Many a lot of people spent they will free time just watching TV, or even playing video games all day long. If you want to try to find a new activity that's look different you can read a new book. It is really fun for you. If you enjoy the book you read you can spent 24 hours a day to reading a publication. The book The Normalized Difference Vegetation Index it doesn't matter what good to read. There are a lot of individuals who recommended this book. These were enjoying reading this book. If you did not have enough space to deliver this book you can buy the e-book. You can m0ore effortlessly to read this book from your smart phone. The price is not to fund but this book has high quality.

Frances Smith:

The Normalized Difference Vegetation Index can be one of your nice books that are good idea. We all recommend that straight away because this e-book has good vocabulary which could increase your knowledge in language, easy to understand, bit entertaining but delivering the information. The author giving his/her effort to place every word into pleasure arrangement in writing The Normalized Difference Vegetation Index nevertheless doesn't forget the main point, giving the reader the hottest along with based confirm resource facts that maybe you can be among it. This great information could drawn you into completely new stage of crucial thinking.

Michelle Jarvis:

This The Normalized Difference Vegetation Index is great guide for you because the content which is full of information for you who all always deal with world and have to make decision every minute. This specific book reveal it details accurately using great manage word or we can point out no rambling sentences inside it. So if you are read that hurriedly you can have whole facts in it. Doesn't mean it only provides straight forward sentences but tricky core information with attractive delivering sentences. Having The Normalized Difference Vegetation Index in your hand like keeping the world in your arm, information in it is not ridiculous one. We can say that no book that offer you world throughout ten or fifteen tiny right but this publication already do that. So , this can be good reading book. Hey there Mr. and Mrs. stressful do you still doubt which?

Download and Read Online The Normalized Difference Vegetation Index By Nathalie Pettorelli #8SXVWE26L4M

Read The Normalized Difference Vegetation Index By Nathalie Pettorelli for online ebook

The Normalized Difference Vegetation Index By Nathalie Pettorelli Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read The Normalized Difference Vegetation Index By Nathalie Pettorelli books to read online.

Online The Normalized Difference Vegetation Index By Nathalie Pettorelli ebook PDF download

The Normalized Difference Vegetation Index By Nathalie Pettorelli Doc

The Normalized Difference Vegetation Index By Nathalie Pettorelli Mobipocket

The Normalized Difference Vegetation Index By Nathalie Pettorelli EPub