

## Understanding Forest Disturbance And Spatial Pattern Remote Sensing And Gis Approaches 2006 07 27

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### **Understanding Forest Disturbance And Spatial**

Sitting astride the fields of ecology, forestry, and remote sensing/GIS, Understanding Forest Disturbance and Spatial Pattern: Remote Sensing and GIS Approaches takes you through the general biological or landscape ecological context of forest disturbance to remote sensing and GIS technological approaches and pattern description and analysis, with compelling applied examples of integration and ...

### **Understanding Forest Disturbance and Spatial Pattern ...**

PDF | On Jan 1, 2007, Michael A Wulder and others published Understanding forest disturbance and spatial pattern: remote sensing and GIS approaches | Find, read and cite all the research you need ...

### **(PDF) Understanding forest disturbance and spatial pattern ...**

Understanding Forest Disturbance and Spatial Pattern. DOI link for Understanding Forest Disturbance and Spatial Pattern. Understanding Forest Disturbance and Spatial Pattern book. Remote Sensing and GIS Approaches. Edited By Michael A. Wulder, Steven E. Franklin. Edition 1st Edition .

### **Understanding Forest Disturbance and Spatial Pattern ...**

The book explores forest disturbance and spatial pattern from an ecological point-of-view within the context of structure, function, pattern, and change. It concludes with a summary of the issues related to detection and mapping of forest disturbances with remotely sensed and GIS data.

### **Understanding Forest Disturbance and Spatial Pattern ...**

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### **Amazon.com: Understanding Forest Disturbance and Spatial ...**

characterizing forest disturbance and spatial pattern. As the information that is extracted from remotely sensed data is often a function of image characteristics, matching the appropriate data source to the disturbance target of interest requires knowledge of these image characteristics.

### **Chapter 2 Identifying and describing forest disturbance ...**

The question challenging modern forest ecology in the tropics, and elsewhere, revolves around the precise spatial and temporal frequency of these disturbance events. The importance of quantifying this is hard to overstate: understanding the disturbance regime is requisite to understanding nearly every other ecological process in a forest.

### **Geography of forest disturbance | PNAS**

In today's lecture, we are going to at how topography, (elevation, slope aspect, latitude, rain-shadows, microtopography) soil properties, and disturbance helps describe the spatial patterns we see in vegetation. We will better understand the emergent landscape and how natural selection selects for plant communities that compete the least with each other.

### **Lecture 13: Spatial Variation in Vegetation Patterns**

Introduction the Book Understanding Forest Disturbance and Spatial Pattern by RS and GIS Approaches Remotely Sensed Data in the Mapping of Forest Harvest Patterns The economic value of the timber, paper, and fuel products extracted from forests has made forest harvesting one of the primary agents of forest disturbance globally.

### **Understanding ...**

The NAFD-NEX forest disturbance maps are produced using images with a nominal spatial resolution of 30 meters. A Minimum Mapping Unit (MMU) process was applied to the annual forest disturbance mapping results. A MMU size of four 30-m pixels was applied to disturbed pixels while stable classes with a size of less than two 30-m pixels were removed.

### **NACP NAFD Project: Forest Disturbance History from Landsat ...**

Conclusion: Understanding forest disturbance and spatial pattern, information needs, and new approaches Michael A. Wulder and Steven E. Franklin  
Index Preface This book was conceived as a contribution to the increasingly urgent need in the scientific and resource management communities to develop a greater understanding of forest disturbance as a means to aid in the resolution of complex ...

### **Table of contents for Understanding forest disturbance and ...**

understanding natural disturbance boundary formation using spatial data and path analysis Eliot J. B. McIntire Department of Forest Sciences, University of British Columbia, 3041-2424 Main Mall, Vancouver, British Columbia, Canada V6K 1Z4

### **UNDERSTANDING NATURAL DISTURBANCE BOUNDARY FORMATION USING ...**

Considering the vast impacts disturbances such as fire and insect outbreaks are having on forests worldwide, Alexandro B. Leverkus and Simon Thorn bring together a selection of work showcasing quality research into these disturbances and strategies being taken to manage them. This Virtual Issue features articles from across the British Ecological Society journals that are...

### **Forests undergoing novel disturbances: understanding and ...**

This project will assess natural and human-induced disturbance on forests in the southeastern United States (e.g., hurricanes, urban sprawl, etc.). Forest health, production, and habitat will be analyzed to determine the impacts of these events and how the forests respond following the

disturbance. Data will be obtained from satellite and aerial sensors to determine the location and extent of ...

#### **Forest Disturbance, Recovery, and Impacts on Forest Health ...**

both understand and increase the resilience of Europe's forests to changing disturbances 13-15. Understanding the ongoing changes in forest ecosystems and developing management strategies to increase their resilience requires a robust quantitative understanding of the prevailing disturbance regimes 16,17.

#### **Mapping the forest disturbance regimes of Europe**

Treefall gaps play an important role in tropical forest dynamics and in determining above-ground biomass (AGB). However, our understanding of gap disturbance regimes is largely based either on surveys of forest plots that are small relative to spatial variation in gap disturbance, or on satellite imagery, which cannot accurately detect small gaps.

#### **Spatial scale and sampling resolution affect measures of ...**

Forest Disturbance is a specialty section in *Frontiers in Forests and Global Change* that publishes original, refereed research on the effects of disturbance on any components of terrestrial and aquatic ecosystems in temperate and tropical forests and agroforests worldwide. While fire is covered in a separate specialty section of this journal, studies on all other forms of disturbance are ...

#### **Frontiers in Forests and Global Change | Forest Disturbance**

Patterns of disturbance in Sierra Nevada forests are shifting as a result of changing climate and land uses. These changes have underscored the need for a monitoring system that both detects disturbances and attributes them to different agents. Addressing this need will aid forest management and conservation decision-making, potentially enhancing forests' resilience to changing climatic ...

#### **An Examination of an Enhanced Remote Sensing Method for ...**

A spatial and temporal analysis of forest dynamics using Landsat time-series. ... Mapping forest disturbance and recovery levels and associated casual agents ... Understanding forest dynamics at the landscape scale is critical given the demands of sustainable forest management and climate change mitigation.

#### **A spatial and temporal analysis of forest dynamics using ...**

The research work scrutinizes the spatial patterns of burned and unburned patches associated with boreal wildfire events with the aim of understanding disturbance processes and recovery at multiple scales. Their work connects with related research that focuses on the morphology of residual vegetation patches.

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