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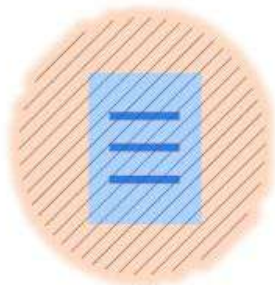
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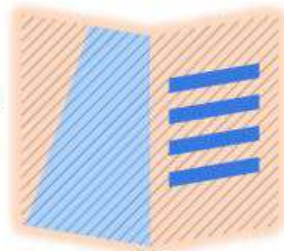
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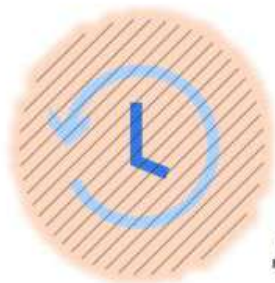
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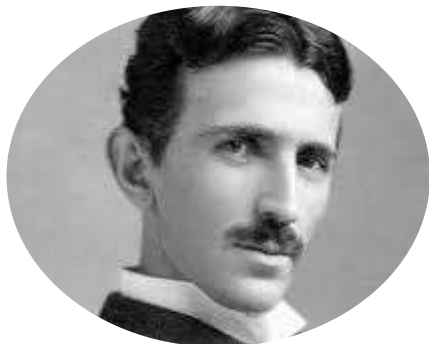


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Journal of the Franklin Institute

Volume 136, Issue 4, October 1893, Pages 259-279





On light and other high frequency phenomena ☆

Nikola Tesla


Available online 30 October 2003.

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[https://doi.org/10.1016/0016-0032\(93\)90368-5](https://doi.org/10.1016/0016-0032(93)90368-5)

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Несколько слов, разделенных пробелом, воспринимаются как соединенных оператором AND (И). Для поиска целой фразы ее следует заключить в кавычки или фигурные скобки.

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- С помощью фигурных скобок { } можно искать конкретные фразы. Они ограничивают поиск до указанной цепочки знаков, при этом могут использоваться символы. Например: {heart-attack} будут показаны только результаты для комбинации heart-attack.

("heart attack" OR "myocardial infarction") AND diabetes AND NOT cancer ИЛИ ("heart attack" OR "myocardial infarction") diabetes -cancer

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Science of The Total Environment, 2 January 2019, ...

Mike Baude, Burghard C. Meyer, Marcus Schindewolf

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Remote Sensing of Environment, 22 January 2020, ...

Benjamin U. Meinen, Derek T. Robinson

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Agriculture and Agricultural Science Procedia, 2015, ...

Martina Slámová, Boris Beláček, ... Zlatica Prídavková

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Пример запроса ("3D modeling" OR "three-dimensional mapping") AND "agricultural landscape"



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Highlights

Abstract

Graphical abstract

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1. Introduction

2. Materials and methods

3. Methods of analysis

4. Results and discussion

5. Conclusion

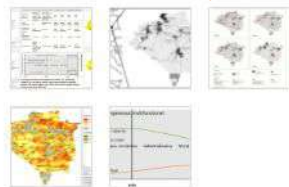
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Разделы статьи

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Рисунки

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Таблицы



Science of The Total Environment

Volume 659, 1 April 2019, Pages 1526-1536



Land use change in an agricultural landscape causing degradation of soil based ecosystem services

Mike Baude ¹, Burghard C. Meyer ², Marcus Schindewolf ³

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Пункты научной новизны

Highlights

- Land use changes are highly dynamic in changes of landscape structure and influencing the ecosystem services provision
- Crop yield production increased from 1900 by around 100 % and has stagnated since 2000
- Species richness and distribution increased until 1850 and has decreased strongly until today
- Degradation of natural soil production capacity at around 60 % of agricultural land
- Erosion hazard risk is modeled for 25 % of arable lands as very high and amount about 30 t/ha per simulated rainfall event

Recommended articles

The Impact of land use/land cover change on ec...
Ecosystem Services, Volume 23, 2017, pp. 47-54

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Exploring the role of land degradation on agric...
Science of The Total Environment, Volume 636, 2018, ...

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- Erosion hazard risk is modeled for 25 % of arable lands as very high and amount about 30 t/ha per simulated rainfall event

Abstract

Landscape structure and ecosystem service (ES) provision in Central Europe have changed fundamentally and some ES have been irreversibly degraded over the last 250 years. The [land use change](#) analysis of a typical agricultural landscape near Leipzig (Germany) uses digitized historical GIS-data, serial [cadastral maps](#) and documents in time steps 1750, 1850, 1950 and 2005. Arable land area increased from 73.4% (1750) to 87.2% (2005) and grassland decreased from 22.1% to 4.2%. ES provision change analysis has resulted e.g. in a significant increase of winter wheat production comparing the decades 1990–1999 to 2000–2009.

However, natural soil production capacity has degraded based on the interpretation of historical soil assessment maps (1864, 1937) and the actual erosion risk hazard has increased strongly in the same period. Caused by the Prussian agricultural revolution between 1750 and 1850 a high biodiversity level is found, followed by a slight decrease during the industrialization in the second half of the 19th century. By industrialized production and collectivization since 1960 devastation of vegetation structures has brought habitat degradation and a dramatic biodiversity loss. Driving forces analysis shows that significant drivers of land use and ES changes since 1750 are socioeconomic, political and technical drivers. It clarifies the impact of landscape changes by Prussian [agrarian reforms](#), industrialization, technical and land management innovations, Kolkhoz system and [Common Agricultural Policy](#) on ES degradation based on the indicators crop production, natural soil production capacity, [soil degradation](#) caused by erosion hazards and biodiversity.

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Soil Degradation

Soil degradation is a worldwide problem, and it is understood as “a change in the soil health status resulting in a diminished capacity of the ecosystem to provide goods and services for its beneficiaries.

From: *Soil Mapping and Process Modeling for Sustainable Land Use Management*, 2017

Related terms:

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Pollution and Environmental Perturbations in the Global System

J. Maximilian, ... A.D. Matthias, in *Environmental and Pollution Science* (Third Edition), 2019

25.2.5 Soil Degradation

Soil **degradation** is the loss of land's production capacity in terms of loss of soil fertility, soil biodiversity, and degradation. Soil degradation causes include agricultural, industrial, and commercial pollution; loss of arable land due to urban expansion, overgrazing, and unsustainable agricultural practices; and long-term climatic changes. According to a recent report to the United Nations, almost one-third of the world's farmable land has disappeared in the last four decades. It was also reported that all of the World's topsoil could become unproductive within 60 years if current rates of loss continue. The issues of soil health and impacts on human well-being are discussed in detail in Chapter 27.

Soil as a complex ecological system for meeting food and nutritional security

Fábio Carvalho Nunes, ... Majeti Narasimha Vara Prasad, in *Climate Change and Soil Interactions*, 2020

9.3 Soil Degradation: Impacts on Climate and Society

Soil degradation is the loss of the intrinsic physical, chemical, and/or biological qualities of soil either by natural or anthropic processes, which result in the diminution or annihilation of important ecosystem functions. The main causes of soil degradation and, consequently, the main threats to its ecological functions are erosion, organic matter decline, loss of biodiversity, compaction, sealing, point-source and diffused contamination, pollution, and salinization (Fig. 9.14) (Montanarella, 2007).



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