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# *Ecology Term Paper Topics*

Coweeta is one of the oldest continuously operating laboratories of its type in the world. For the first time, a complete review and summary of

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more than 50  
years study of  
the hydrological  
and ecological  
responses of  
baseline and  
managed Southern  
Appalachian  
hardwood forests  
at Coweeta is  
now supplied by  
this volume. The  
long-term  
research

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approach

represents a continuum of theory, experimentation and application using watersheds as landscape units of investigation. Thus, the information encompasses a wide range of

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interpretations  
and interests.  
In addition to  
in-depth  
analyses of  
terrestrial and  
stream  
processes, the  
breadth of  
coverage  
includes  
historical  
perspectives and  
relevance of

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ecosystem  
science to  
management  
needs. In a  
broader sense,  
the Coweeta  
research effort  
is considered  
from a  
perspective of  
national and  
international  
forest hydrology  
and ecology

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programs.

Landscape

Ecological

Applications in

Man-Influenced

Areas not only

expands the

concept of

landscape

ecology, but

also applies its

principles to

man-influenced

ecosystems. New

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dimensions of landscape ecological research in a global change such as urbanization, biodiversity, and land transformation are explored in this book. The book also includes case

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studies  
concerning  
landscape  
analysis and  
evaluation using  
spatial analysis  
and landscape  
modelling for  
establishing  
sustainable  
management  
strategy in  
urban and  
agricultural



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landscapes.

In four chapters and an introduction, this book systematically helps readers understand the development of the Geographical Sciences both in China and in the world during the past 30 years.

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Through data analysis of methodologies including CiteSpace, TDA, qualitative analysis, questionnaires, data mining and mathematical statistics, the book explains the evolution of research topics

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and their driving factors in the Geographical Sciences and its four branches, namely Physical Geography, Human Geography, Geographical Information Science and Environmental Geography. It

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also identifies the role of the Geographical Sciences in the analysis of strategic issues such as global change and terrestrial ecosystems, terrestrial water cycle and water resources, land change,

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global  
cryosphere  
evolution and  
land surface  
processes on the  
Tibetan Plateau,  
economic  
globalization  
and local  
responses,  
regional  
sustainable  
development,  
remote sensing

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modelling and  
parameter  
inversion,  
spatial analysis  
and simulation,  
and tempo-  
spatial  
processes and  
modelling of  
environmental  
pollutants. It  
then discusses  
research  
development and

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inadequacy of  
Chinese  
Geographical  
Sciences in the  
above-mentioned  
topics, as well  
as in the fields  
including  
Geomorphology  
and Quaternary  
environmental  
change,  
Ecohydrology,  
ecosystem

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services, the  
urbanization  
process and  
mechanism,  
medical and  
health  
geography,  
international  
rivers and  
transboundary  
environment and  
resources,  
detection and  
attribution of



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changes in land surface sensitive components, and uncertainty of spatial information and spatial analysis. It shows that the NSFC has driven the development in all these topics and

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fields. In addition, the book summarises trends of the Geographical Sciences in China and the research level in major countries of the world through an overview of geographical education in

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colleges and universities, the analysis of publications, citations and author networks of SCI/SSCI and CSCD indexed articles, and the description of Sino-USA, Sino-UK and Sino-German cooperation.

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This book serves as an important reference to anyone interested in geographical sciences and related fields. Long-term ecological research studies are rare and invaluable resources,

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particularly  
when they are as  
thoroughly  
documented as  
the Mahale  
Mountain  
Chimpanzee  
Project in  
Tanzania.  
Directed by  
Toshisada  
Nishida from  
1965 until 2011,  
the project

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continues to yield new and fascinating findings about our closest neighbour species. In a fitting tribute to Nishida's contribution to science, this book brings together fifty years of

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research into  
one  
encyclopaedic  
volume.

Alongside  
previously  
unpublished  
data, the  
editors include  
new translations  
of Japanese  
writings  
throughout the  
book to bring

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previously  
inaccessible  
work to non-  
Japanese  
speakers. The  
history and  
ecology of the  
site, chimpanzee  
behaviour and  
biology, and  
ecological  
management are  
all addressed  
through



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firsthand  
accounts by  
Mahale  
researchers. The  
authors  
highlight long-  
term changes in  
behaviour, where  
possible, and  
draw comparisons  
with other  
chimpanzee sites  
across Africa to  
provide an

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integrative view  
of chimpanzee  
research today.

Contemporary  
Ecology Research  
in China

Mahale

Chimpanzees

Ecological

Research

Strategy

Forest Hydrology  
and Ecology at  
Coweeta

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Key Topics in  
Landscape  
Ecology  
Landscape  
Ecological  
Applications in  
Man-Influenced  
Areas

**R. K. Peet**  
**Dep. of**  
**Botany,**  
**University of**  
**North**

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Carolina,  
Chapel Hill,  
N. C. 27514,  
USA Robert  
Whittaker's  
contributions  
to ecology  
were many and  
remarkably  
varied. His  
publication  
record will

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long stand as  
a monument to  
his greatness,  
and whatever  
we do to honor  
him will  
likely be  
rather small  
in comparison.  
Less well  
known were his  
personal

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interactions  
and the impact  
they had on  
the  
development of  
ecology as  
well as  
individual  
scientists.  
Over the years  
he touched  
many of us and

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we felt not  
just a  
professional  
but also a  
deep personal  
loss in his  
passing. After  
his death I  
was contacted  
by numerous  
colleagues who  
wondered what

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they might do  
to honor him.  
Whittaker had  
long served on  
the editorial  
board of  
Vegetatio,  
which prompted  
Eddy van der  
Maarel to  
suggest that a  
series of



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papers in the journal might be a fitting memorial, and so this project was conceived.

Whittaker was a master of synthesis and during his career he

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published

numerous  
review papers  
which showed  
clearly how  
his work  
related to and  
built on that  
of others. For  
this reason it  
seemed  
inappropriate

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and redundant  
to solicit  
papers  
reviewing  
areas to which  
Whittaker made  
important  
contributions.  
Instead, I  
chose to  
solicit  
research

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Paper Topics  
papers

illustrating  
current  
applications  
of approaches  
Whittaker  
developed and  
showing a few  
of the recent  
advances which  
have grown  
directly from

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his pioneering  
work.

Ecosystems  
change on a  
multitude of  
spatial and  
temporal  
scales. While  
analyses of  
ecosystem  
dynamics in  
short

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timespans have received much attention, the impacts of changes in the long term have, to a great extent, been neglected, provoking a lack of

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information

and

methodological  
know-how in  
this area.

This book  
fills this gap  
by focusing on  
studies  
dealing with  
the  
investigation

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Paper Topics

of complex,  
long-term  
ecological  
processes with  
regard to  
global change,  
the  
development of  
early warning  
systems, and  
the  
acquisition of



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a scientific  
basis for  
strategic  
conservation  
management and  
the  
sustainable  
use of  
ecosystems.  
Within this  
book,  
theoretical

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ecological  
questions of  
long-term  
processes, as  
well as an  
international  
dimension of  
long-term  
monitoring,  
observations  
and research  
are brought

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together. The outcome is an overview on different aspects of long-term ecological research. Aquatic, as well as terrestrial ecosystems are

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represented.

Urbanization  
is a global  
phenomenon  
that is  
increasingly  
challenging  
human society.  
It is  
therefore  
crucially  
important to

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Paper Topics

ensure that  
the relentless  
expansion of  
cities and  
towns proceeds  
sustainably.  
Urban ecology,  
the interdis-  
ciplinary study  
of ecological  
patterns and  
processes in

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Paper Topics

towns and cities, is a rapidly developing field that can provide a scientific basis for the informed decision-making and planning needed to

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Paper Topics

**create both  
viable and  
sustainable  
cities. Urban  
Ecology brings  
together an  
international  
team of  
leading  
scientists to  
discuss our  
current**

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understanding  
of all aspects  
of urban  
environments,  
from the  
biology of the  
organisms that  
inhabit them  
to the  
diversity of  
ecosystem  
services and



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**human social  
issues**

**encountered  
within urban  
landscapes.**

**The book is  
divided into  
five sections  
with the first  
describing the  
physical urban  
environment.**

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**Subsequent  
sections  
examine  
ecological  
patterns and  
processes  
within the  
urban setting,  
followed by  
the  
integration of  
ecology with**

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Paper Topics

**social issues.**

**The book  
concludes with  
a discussion  
of the  
applications  
of urban  
ecology to  
land-use  
planning. The  
emphasis  
throughout is**

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on what we  
actually know  
(as well as  
what we should  
know) about  
the  
complexities  
of social-  
ecological  
systems in  
urban areas,  
in order to

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develop urban  
ecology as a  
rigorous  
scientific  
discipline.

"This is the  
urban century  
in which, for  
the first  
time, the  
majority of  
people live in

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**towns and  
cities.**

**Understanding  
how people  
influence, and  
are influenced  
by, the  
'green'  
component of  
these  
environments  
is therefore**

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Paper Topics

of enormous  
significance.  
Providing an  
overview of  
the essentials  
of urban  
ecology, the  
book begins by  
covering the  
vital  
background  
concepts of

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Paper Topics  
the

urbanisation  
process and  
the effect  
that it can  
have on  
ecosystem  
functions and  
services.  
Later sections  
are devoted to  
examining how



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**species**

**respond to  
urbanisation,  
the many  
facets of  
human-ecology  
interactions,  
and the issues  
surrounding  
urban planning  
and the  
provision of**

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Paper Topics  
urban green

spaces .

Drawing on  
examples from  
urban  
settlements  
around the  
world, it  
highlights the  
progress to  
date in this  
burgeoning

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Paper Topics

field, as well  
as the  
challenges  
that lie ahead  
"--Provided by  
publisher.

Foundations of  
Restoration  
Ecology

An  
Introduction  
to Ecological

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**Anthropology  
Linking Man  
and Nature  
Systems  
North American  
Monarch  
Butterfly  
Ecology and  
Conservation**

**Advances in  
Ungulate**

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**Ecology**

The fossil record contains unique long-term insights into how ecosystems form and function which cannot be determined simply by examining modern systems. It also provides a record of endangered species through time, which allow us to make

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conservation decisions based on thousands to millions of years of information. The aim of this book is to demonstrate how palaeontological data has been or could be incorporated into ecological or conservation scientific studies. This book will be written by

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palaeontologists for modern ecologists and conservation scientists. Manuscripts will fall into one (or a combination) of four broad categories: case studies, review articles, practical considerations and future directions. This book will serve as both a 'how to guide' and

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provide the current state of knowledge for this type of research. It will highlight the unique and critical insights that can be gained by the inclusion of palaeontological data into modern ecological or conservation studies.

An Introduction to  
Molecular Ecology



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introduces the latest molecular concepts and techniques, demonstrating how genetic markers and molecular tools can be used to answer ecological questions such as "How do we know whether a particular species is monogamous or promiscuous?"; "How

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can we monitor the illegal trafficking of wildlife?"; and "How can we differentiate between the many similar species making up a microbial community?" Such questions, whose answers were previously out of our reach, can now be probed,

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revolutionizing our understanding of ecological systems and phenomena. Blending conceptual detail with the most instructive examples, An Introduction to Molecular Ecology is an ideal resource for those new to the subject needing to develop a strong

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working understanding of the field. The book captures the broad scope of the subject, exploring the use of molecular tools in the context of topics including behavioural genetics, phylogeography, microbial ecology, and conservation.

Ecology is the study of

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the interrelationships between organisms and their environment, including the biotic and abiotic components. There are at least six kinds of ecology: ecosystem, physiological, behavioural, population, and community. Specific topics include: Acid

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Deposition, Acid Rain  
Revisited,  
Biodiversity,  
Biocomplexity,  
Carbon Sequestration  
in Soils, Coral Reefs,  
Ecosystem Services,  
Environmental Justice,  
Fire Ecology, Floods,  
Global Climate  
Change, Hypoxia, and  
Invasion. This new  
book presents new

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research on ecology  
from around the  
world.

This book focuses on  
mechanisms of human  
adaptability. It  
integrates findings  
from ecology,  
physiology, social  
anthropology, and  
geography around a set  
of problems or  
constraints posed by

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human habitats.

Agroecology in China

Challenges for

Research and

Management

New Trends in

Ecology Research

Issue Paper on the

Ecological Effects of

Metals

Urban Ecology

Advances in

Ecological Research



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Designed to help students understand the multiple levels at which human populations respond to their surroundings, this essential text offers the most complete discussion of

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environmental,  
physiological,  
behavioral, and  
cultural  
adaptive  
strategies  
available.

Among the  
unique features  
that make Human  
Adaptability  
outstanding as  
both a textbook

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for students  
and a reference  
book for  
professionals  
are a complete  
discussion of  
the development  
of ecological  
anthropology  
and relevant  
research  
methods; the  
use of an

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ecosystem  
approach with  
emphasis on  
arctic, high  
altitude, arid  
land,  
grassland,  
tropical rain  
forest, and  
urban  
environments;  
an extensive  
and updated

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bibliography on  
ecological  
anthropology;  
and a  
comprehensive  
glossary of  
technical  
terms. Entirely  
new to the  
third edition  
are chapters on  
urban  
sustainability

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and methods of spatial analysis, with enhanced emphasis throughout on the role of gender in human-adaptability research and on global environmental change as it

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affects  
particular  
ecosystems. In  
addition, new  
sections in  
each chapter  
guide students  
to websites  
that provide  
access to  
relevant  
material,  
complement the

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text's coverage of biomes, and suggest ways to become active in environmental issues.

Aimed at Masters, and PhD students, teachers, researchers and natural



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resource

managers, this book explores the interface between restoration ecology and ecological restoration.

Covers both the ecological concepts involved in restoration ecology

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and their practical applications. Written by an excellent group of ecologists from centres across Europe with a strong reputation for restoration ecology. Only textbook around

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aimed

specifically at  
advanced undergraduate  
graduate courses  
and

postgraduate  
study  
programmes.

As the  
practical  
application of  
ecological  
restoration

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continues to grow, there is an increasing need to connect restoration practice to areas of underlying ecological theory.

Foundations of  
Restoration  
Ecology is an

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important  
milestone in  
the field,  
bringing  
together  
leading  
ecologists to  
bridge the gap  
between theory  
and practice by  
translating  
elements of  
ecological

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theory and current research themes into a scientific framework for the field of restoration ecology. Each chapter addresses a particular area of ecological

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theory,  
covering  
traditional  
levels of  
biological  
hierarchy (such  
as population  
genetics,  
demography,  
community  
ecology) as  
well as topics  
of central

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relevance to  
the challenges  
of restoration  
ecology (such  
as species  
interactions,  
fine-scale  
heterogeneity,  
successional  
trajectories,  
invasive  
species  
ecology,



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ecophysiology).  
Several  
chapters focus  
on research  
tools (research  
design,  
statistical  
analysis,  
modeling), or  
place  
restoration  
ecology  
research in a

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larger context  
(large-scale  
ecological  
phenomena,  
macroecology,  
climate change  
and  
paleoecology,  
evolutionary  
ecology). The  
book makes a  
compelling case  
that a stronger

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connection  
between  
ecological  
theory and the  
science of  
restoration  
ecology will be  
mutually  
beneficial for  
both fields:  
restoration  
ecology  
benefits from a

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stronger  
grounding in  
basic theory,  
while  
ecological  
theory benefits  
from the unique  
opportunities  
for  
experimentation  
in a  
restoration  
context.

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Foundations of  
Restoration  
Ecology  
advances the  
science behind  
the practice of  
restoring  
ecosystems  
while exploring  
ways in which  
restoration  
ecology can  
inform basic

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ecological questions. It provides the first comprehensive overview of the theoretical foundations of restoration ecology, and is a must-have volume for anyone involved

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in restoration  
research,  
teaching, or  
practice.  
Energy,  
Ecology, and  
the Environment  
discusses how  
our need for  
energy and the  
different means  
required to  
obtain it

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affect the environment and the harnessing of different natural resources. The book also aims to show more efficient ways to use and generate energy. The book, after a



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brief

introduction to  
the concept of  
energy, covers  
topics such as  
the different  
energy  
resources and  
the demands,  
costs, and  
policies  
regarding  
energy. The

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book also discusses the problems brought about by the production of energy such as the hazards to nature and man; environmental problems and pollution; and accidents and

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sabotage that it can bring about. Also tackled are issues such as the transport and disposal of wastes; the conversion of energy; and the regulation of the energy industry. The

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text is

recommended for naturalists who would like to know more about the effects of the energy industry on the environment, as well as for energy scientists who are looking for

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alternative  
sources and  
ways to achieve  
clean energy.

History of  
Landscape  
Ecology in the  
United States  
Patterns,  
Processes, and  
Applications  
Human  
Adaptability

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The  
Geographical  
Sciences During  
1986–2015  
The New  
Frontier  
The Challenges  
of Long Term  
Ecological  
Research: A  
Historical  
Analysis  
Issues in

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Ecosystem

Ecology / 2013

Edition is a Schol  
arlyEditions™

book that

delivers timely,  
authoritative, and  
comprehensive

information about  
Rangeland

Ecology. The

editors have built

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Paper Topics

Issues in

Ecosystem

Ecology: 2013

Edition on the

vast information

databases of

ScholarlyNews.™

You can expect

the information

about Rangeland

Ecology in this

book to be



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deeper than what  
you can access  
anywhere else,  
as well as  
consistently  
reliable,  
authoritative,  
informed, and  
relevant. The  
content of Issues  
in Ecosystem  
Ecology / 2013

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confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

The Long-Term Ecological Research (LTER) Program is, in a sense, an experiment to

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transform the nature of science, and represents one of the most effective mechanisms for catalyzing comprehensive site-based research that is collaborative, multidisciplinary,

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and long-term in nature. The scientific contributions of the Program are prodigious, but the broader impacts of participation have not been examined in a formal way. This

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book captures the consequences of participation in the Program on the perspectives, attitudes, and practices of environmental scientists. The edited volume comprises three

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sections. The first section includes two chapters that provide an overview of the history, goals, mission, and inner workings of the LTER network of sites. The second section



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comprises three  
dozen

retrospective

essays by

scientists, data

managers or

educators who

represent a broad

spectrum of

LTER sites from

deserts to

tropical forests

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and from arctic to marine ecosystems. Each essay addresses the same series of probing questions to uncover the extent to which participation has affected the ways

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that scientists  
conduct  
research,  
educate students,  
or provide  
outreach to the  
public. The final  
section  
encompasses 5  
chapters, whose  
authors are  
biophysical

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scientists,  
historians,  
behavioral  
scientists, or  
social scientists.  
This section  
analyzes,  
integrates, or  
synthesizes the  
content of the  
previous  
chapters from

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multiple  
perspectives and  
uncovers  
emergent themes  
and future  
directions.

The book  
presents the  
latest research  
on ecology which  
is the study of  
the

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interrelationships  
between  
organisms and  
their  
environment,  
including the  
biotic and abiotic  
components.

There are at least  
six kinds of  
ecology:  
ecosystem,

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physiological,  
behavioural,  
population, and  
community.

Specific topics  
include: Acid  
Deposition, Acid  
Rain Revisited,  
Biodiversity,  
Biocomplexity,  
and Carbon  
Sequestration in

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Soils, Coral  
Reefs,  
Ecosystem  
Services,  
Environmental  
Justice, Fire  
Ecology, Floods,  
Global Climate  
Change, Hypoxia,  
and Invasion.  
Ecology is the  
study of the



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between  
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environment,  
including the  
biotic and abiotic  
components.

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include: Acid  
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Soils, Coral  
Reefs,  
Ecosystem  
Services,  
Environmental  
Justice, Fire  
Ecology, Floods,  
Global Climate  
Change, Hypoxia,  
and Invasion.  
This book  
presents new

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research on  
ecology from  
around the world.

Restoration

Ecology

Long Term Socio-  
Ecological

Research

50 Years of

Research

Human

Adaptability,

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Edition  
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Society-Nature  
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Across Spatial  
and Temporal  
Scales  
Issues in  
Ecosystem  
Ecology: 2013  
Edition

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The authors in this volume make a case for LTSER's potential in providing insights, knowledge and experience necessary for a sustainability transition. This expertly edited selection of contributions from Europe and North America reviews the

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development of  
LTSER since its  
inception and assesses  
its current state, which  
has evolved to  
recognize the value of  
formulating solutions  
to the host of  
ecological threats we  
face. Through many  
case studies, this book  
gives the reader a  
greater sense of where

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we are and what still needs to be done to engage in and make meaning from long-term, place-based and cross-disciplinary engagements with socio-ecological systems.

This volume explores the challenges of sustaining long-term ecological research



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through a historical analysis of the Long Term Ecological Research Program created by the U.S. National Science Foundation in 1980. The book examines reasons for the creation of the Program, an overview of its 40-year history, and in-depth historical

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analysis of selected sites. Themes explored include the broader impact of this program on society, including its relevance to environmental policy and understanding global climate change, the challenge of extending ecosystem ecology into urban

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environments, and links to creative arts and humanities projects. A major theme is the evolution of a new type of network science, involving comparative studies, innovation in information management, creation of socio-ecological frameworks,

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development of  
governance structures,  
and formation of an  
International Long  
Term Ecological  
Research Network  
with worldwide reach.  
The book's themes  
will interest historians,  
philosophers and  
social scientists  
interested in  
ecological and

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environmental sciences, as well as researchers across many disciplines who are involved in long-term ecological research.

Landscape ecology is a relatively new area of study, which aims to understand the pattern of interaction of biological and

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cultural communities  
within a landscape.

This book brings  
together leading  
figures from the field  
to provide an up-to-  
date survey of recent  
advances, identify key  
research problems and  
suggest a future  
direction for  
development and  
expansion of

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knowledge. Providing in-depth reviews of the principles and methods for understanding landscape patterns and changes, the book illustrates concepts with examples of innovative applications from different parts of the world. Forming a

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current 'state-of-the-science' for the science of landscape ecology, this book forms an essential reference for graduate students, academics, professionals and practitioners in ecology, environmental science, natural resource management,



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and landscape

planning and design.

This book describes

the emergence of

landscape ecology, its

current status as a new

integrative science,

and how distinguished

scholars in the field of

landscape ecology

view the future

regarding new

challenges and career

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opportunities. Over the past thirty years, landscape ecology has utilized development in technology and methodology (e.g., satellites, GIS, and systems technologists) to monitor large temporal-spatial scale events and phenomena. These events include

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changes in vegetative cover and composition due to both natural disturbance and human cause—changes that have academic, economic, political, and social manifestations. There is little doubt, due to the temporal-spatial scale of this integrative science,

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that scholars in fields of study ranging from anthropology to urban ecology will desire to compare their fields with landscape ecology during this intellectually and technologically fertile time. History of Landscape Ecology in the United States brings to light the vital

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role that landscape ecologists will play in the future as the human population continues to increase and fragment the natural environment. Landscape ecology is known as a synthesized intersection of disciplines; but new theories, concepts, and

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principles have  
emerged that form the  
foundation of a new  
transdiscipline.

Tackling Complexity  
Long-Term Ecological  
Research

Environmental Policy  
and Reform in China

Paleontology in

Ecology and  
Conservation

From the Classics To

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the Frontiers

An Introduction to  
Molecular Ecology

*This volume contains  
five papers dealing  
with a wide range of  
plant, animal, and  
soil biological topics.*

*Gray and his  
colleagues describe  
the origin and spread  
of the salt marsh*

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*grass Spartina*

*anglica. The result of a hybridization at the close of the last century, this genetically uniform species has been extremely successful in its particular niche and has a fascinating biology. Smith stresses the*



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*importance of gene-environment interactions in life-history theory in contrast to the resource constraint emphasis of the optimization approach.*

*Experimental approaches to the subject are also*

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*discussed. Chanway and his colleagues examine the evidence for the importance of interactions between plants and micro-organisms in the rhizosphere in determining the outcome of plant competition and the establishment of*

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*community structure.*

*Despite scarce evidence, real effects meriting further research do seem to exist. Brundrett also deals with an aspect of ecology in the soil. Most plants seem to have mycorrhizal associates and their importance is now*

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*widely appreciated.*

*Much has been learned but more research is needed to determine the beneficial or after effects of mycorrhizae in natural systems.*

*Richter and Babar review the diversity of tropical soils. They*

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*are in fact much more variable than is often thought, perhaps because too few ecologists are specialists in soils. Clearly, a proper knowledge and understanding of the many soil types is vital to conservation and development*

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*work in the tropics.*

*Serves as the fourth  
volume under new  
editorial direction*

*Presents a broad  
range of topical  
papers in ecology*

*Contains five papers  
dealing with a wide  
range of plant,  
animal, and soil  
biological topics*

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*Climate change,  
urban sprawl,  
abandonment of  
agriculture,  
intensification of  
forestry and  
agriculture, changes  
in energy generation  
and use, expansion of  
infrastructure  
networks, habitat  
destruction and*

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*degradation, and other drivers of change occur at increasing rates. They affect patterns and processes in forest landscapes, and modify ecosystem services derived from those ecosystems. Consequently, rapidly changing landscapes*



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*present many new challenges to scientists and managers. While it is not uncommon to encounter the terms “global change” and “landscape” together in the ecological literature, a global analyses of drivers of change in forest*

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*landscapes, and their  
ecological  
consequences have  
not been addressed  
adequately. That is  
the goal of this  
volume: an  
exploration of the  
state of knowledge of  
global changes in  
forested landscapes  
with emphasis on*

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*causes and effects,  
and challenges faced  
by researchers and  
land managers.*

*Initial chapters  
identify and describe  
major agents of  
landscape change:  
climate, fire, and  
human activities. The  
next series of  
chapters address*

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*implications of changes on ecosystem services, biodiversity conservation and carbon flux. A chapter that describes methodologies of detecting and monitoring landscape changes is presented followed by chapter that highlights the*

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*many challenges  
forest landscape  
managers face  
amidst of global  
change. Finally, we  
present a summary  
and a synthesis of the  
main points presented  
in the book. Each  
chapter will contain  
the individual  
research experiences*

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*of chapter authors, augmented by review and synthesis of global scientific literature on relevant topics, as well as critical input from multiple peer reviewers.*

*Key features:*

*Reviews the development of*

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*agroecology in  
China, including  
research, practice,  
management, and  
education regarding  
challenges for rural  
and agricultural  
progress Presents  
information from  
sources not readily  
available in the West  
about agricultural*

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*development in China during the last several decades Provides models and indicates starting points for future research and practice Addresses how to meet future challenges of agroecosystems from the field to the table in China from*



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*scientific,*

*technological, and  
management*

*perspectives During*

*the past 30 years,*

*industrialization has*

*fundamentally*

*changed traditional*

*rural life and*

*agricultural practices*

*in China. While the*

*incomes of farmers*

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*have increased, serious issues have been raised concerning the environment, resource depletion, and food safety. In response, the Chinese government and Chinese scientists encouraged eco-agriculture, the*

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*practice of  
agroecology  
principles and  
philosophy, as a way  
to reduce the negative  
consequences of large-  
scale industrialized  
systems of farming.*

*Agroecology in  
China: Science,  
Practice, and  
Sustainable*

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*Management*

*represents the work of experts and leaders who have taught, researched, and expanded Chinese agroecology and eco-agriculture for more than 30 years. It reviews decades of agricultural change to*

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*provide an integrated analysis of the progress of research and development in agroecological farming practices. The book contains research on traditional and newly developed agricultural systems in China, including*

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*intercropping systems, rainfall harvest systems, and rice–duck, rice–fish, and rice–frog co-culture systems. It covers current eco-agriculture practices in the major regions of China according to climate conditions. The book closes with*

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*a discussion of the  
major technical  
approaches,  
necessary policy  
support, and possible  
major development  
stages that must occur  
to allow broader  
agroecological  
implementations  
toward the  
sustainability of*

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*future food systems in China. Presenting eco-agriculture systems that are somewhat unique in comparison to those of the United States, Latin America, and Europe, Agroecology in China gives insight on how Chinese agroecologists, under*



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*the political and cultural systems specific to China, have created a strong foundation for ecologically sound agroecosystem design and management that can be applied and adapted to food systems elsewhere in the world. By using*

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*selected regional  
examinations of  
agroecological  
efforts in China as  
examples, this book  
provides models of  
how to conduct  
research on a broad  
range of  
agroecosystems  
found worldwide.*

*The Chinese*

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*government is increasingly focusing on ecological construction and has subscribed to a national “Ecological Civilization Construction”.*  
*Ecological research and protection practice develop so fast and achieve a lot*

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*at the national agenda. This book is a synthesis of five most exciting and dominant themes in contemporary ecological research in China: biodiversity, ecosystem management, degraded ecosystem restoration, global*

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*change and sustainable development. This book spans all the Earth's major ecosystems, such as forests, oceans, grasslands, wetlands, lakes, rivers, farmland and cities. This book provides a platform*

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*for scientific research across a variety of disciplines. It will be invaluable to experts, policymakers and local officers and will also be a highly useful resource for undergraduate and postgraduate students. This book will allow*

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*researchers, students  
and policymakers  
outside China to  
learn about the  
significant  
achievements and  
applications of  
ecological research  
within China.*

*Science, Practice, and  
Sustainable  
Management*

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*Forest Landscapes  
and Global Change  
Unifying Ecology  
Across Scales:  
Progress, Challenges  
and Opportunities  
A Century of Forest  
Resources Education  
at Penn State: Serving  
Our Forests, Waters,  
Wildlife, and Wood  
Industries*



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*Challenges for  
Mountain Regions  
Ecology Research  
Progress*

Key Topics in  
Landscape Ecology  
Cambridge  
University  
Press

The  
International  
Handbook of

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chapters by  
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unique  
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exploring the  
multi-

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disciplinary  
field of  
political  
ecology. This  
landmark  
volume  
canvasses key  
developments,  
topics, iss  
The new book  
presents  
important

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recent

research on  
ecology which  
is the study  
of the interre  
lationships  
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organisms and  
their  
environment,  
including the  
biotic and

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abiotic

components.

There are at

least six

kinds of

ecology:

ecosystem,

physiological,

behavioural,

population,

and community.

specific

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topics

include: Acid  
Deposition,  
Acid Rain  
Revisited,  
Biodiversity,  
Biocomplexity,  
Carbon  
Sequestration  
in Soils,  
Coral Reefs,  
Ecosystem

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Services,  
Environmental  
Justice, Fire  
Ecology ,  
Floods, Global  
Climate  
Change,  
Hypoxia, and  
Invasion.

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Changing the  
Nature of  
Scientists  
New  
Developments  
in Ecology  
Research  
Between Theory  
and  
Application  
Ecology



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