

Stable Isotopes in Ecology and Environmental Science

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Stable Isotopes In Ecology And Environmental Science

Brian Fry



Stable Isotopes In Ecology And Environmental Science:

Stable Isotopes in Ecology and Environmental Science Robert Michener, Kate Lajtha, 2008-04-15 This book highlights new and emerging uses of stable isotope analysis in a variety of ecological disciplines While the use of natural abundance isotopes in ecological research is now relatively standard new techniques and ways of interpreting patterns are developing rapidly The second edition of this book provides a thorough up to date examination of these methods of research As part of the Ecological Methods and Concepts series which provides the latest information on experimental techniques in ecology this book looks at a wide range of techniques that use natural abundance isotopes to follow whole ecosystem element cycling understand processes of soil organic matter formation follow the movement of water in whole watersheds understand the effects of pollution in both terrestrial and aquatic environments study extreme systems such as hydrothermal vents follow migrating organisms In each case the book explains the background to the methodology looks at the underlying principles and assumptions and outlines the potential limitations and pitfalls **Stable Isotopes in Ecology and Environmental Science** is an ideal resource for both ecologists who are new to isotopic analysis and more experienced isotope ecologists interested in innovative techniques and pioneering new uses

Stable Isotope Ecology Brian Fry, 2007-01-15 A solid introduction to stable isotopes that can also be used as an instructive review for more experienced researchers and professionals The book approaches the use of isotopes from the perspective of ecological and biological research but its concepts can be applied within other disciplines A novel step by step spreadsheet modeling approach is also presented for circulating tracers in any ecological system including any favorite system an ecologist might dream up while sitting at a computer The author's humorous and lighthearted style painlessly imparts the principles of isotope ecology The online material contains color illustrations spreadsheet models technical appendices and problems and answers

Stable Isotopes as Indicators of Ecological Change, 2011-09-21 The 20th century has experienced environmental changes that appear to be unprecedented in their rate and magnitude during the Earth's history For the first time **Stable Isotopes as Indicators of Ecological Change** brings together a wide range of perspectives and data that speak directly to the issues of ecological change using stable isotope tracers The information presented originates from a range of biological and geochemical sources and from research fields within biological climatological and physical disciplines covering time scales from days to centuries Unlike any other reference editors discuss where isotope data can detect record trace and help to interpret environmental change Provides researchers with groundbreaking data on how to predict the terrestrial ecosystems response to the ongoing rapid alterations Reveals how ecosystems have responded to environmental and biotic fluctuations in the past Includes examples from research by a wide range of biological and physical scientists who are using isotopic records to both detect and interpret environmental change

Isotope Tracers in Catchment Hydrology C. Kendall, J.J. McDonnell, 1998 **Isotope Tracers in Catchment Hydrology** is the first synthesis of physical hydrology and isotope geochemistry with a catchment focus and is a

valuable reference for professionals and students alike in the fields of hydrology hydrochemistry and environmental science

Tracking Animal Migration with Stable Isotopes ,2008-04-09 Tracking Animal Migration with Stable Isotopes provides a consolidated overview of the current knowledge of stable isotopes in terrestrial migration research questions It offers ecologists and conservation biologists provide a practical handbook for those considering using stable isotopes in their migration research Presents information for readers to understand how to apply isotopic methods for tracking Critical information on areas for future research Practical guidelines and discussions of sample collection sample preparation and data analysis Enhanced understanding of data and statistical analysis in isotope based studies of migratory animals

Marine Mammal Ecotoxicology Maria Cristina Fossi,Cristina Panti,2018-08-06 Marine Mammal Ecotoxicology Impacts of Multiple Stressors on Population Health provides tactics on how to develop a comprehensive methodology for the study of existing threats to marine mammals By presenting a conservation biology approach and new and emerging technologies this work helps provide crucial knowledge on the status of marine mammal populations that not only helps readers understand the ecosystem s health but also instigate mitigation measures This volume provides information that helps investigators unravel the relationships between exposure to environmental stressors e g climate change pollutants marine litter pathogens and biotoxins and a range of endpoints in marine mammal species The application of robust examination procedures and biochemical immunological and molecular techniques combined with pathological examination and feeding ecology has led to the development of health assessment methods at the individual and population levels in wild marine mammals Provides a comprehensive worldwide update and state of knowledge on current research and topics on marine mammal ecotoxicology Includes coverage of both new and emerging technologies Features a multidisciplinary approach that gives readers a broad updated overview of the threats facing marine mammals and related conservation measures

Stable Isotope Forensics Wolfram Meier-Augenstein,2011-09-19 This book provides the first comprehensive overview and guide to forensic isotope analysis an exciting new application of stable isotope analytical techniques Topics are introduced using examples and real life case studies such as food quality control where isotope analysis has already had a major impact in terms of consumer protection These examples illustrate the underlying principles of isotope profiling or fingerprinting A section comprising actual criminal case work is used to build a bridge between the introduction and the technical section to encourage students to engage with this novel departure for analytical sciences while at the same time providing hands on examples for the experienced researcher and forensic practitioner to match problems and success stories encountered with the topics discussed in the technical section What little information is available on the subject in book form so far has been published as individual chapters in books dealing either with mass spectrometry forensic geoscience or environmental forensics this is the first book to focus on the entire spectrum of forensic isotope analysis and will be an invaluable reference to both researchers in the field and forensic practitioners

Isotopes and the Natural Environment Paul Alexandre,2020-01-27 This book

provides straightforward and practical information on isotopes applied to a variety of natural sciences. It covers the basics of isotopes and includes detailed examples from a range of natural sciences: ecology, biology, human health, environment, and climate, geography, and geology, highlighting their applicability in these fields. It is a must read for all advanced undergraduate and graduate students working with isotopes regardless of the area and is a very useful one stop resource for scientists starting in isotope research.

Advances in Sponge Science: Physiology, Chemical and Microbial Diversity, Biotechnology, 2012-06-26 One of two special issues of *Advances in Marine Biology* focusing on sponge science, it features comprehensive reviews of the latest studies that are advancing our understanding of the fascinating marine phylum Porifera. The selected contributors are internationally renowned researchers in their respective fields and provide a thorough overview of the state of the art of sponge science. This volume will become a reference to marine biologists with interest in benthic ecology and biotic interactions including symbiosis, chemical and molecular ecology, systematics, phylogeny, and evolution, sponge culture, and tissue engineering.

Biogeochemical Approaches to Paleodietary Analysis Stanley H. Ambrose, M. Anne Katzenberg, 2006-04-18 The study of human diet brings together researchers from diverse backgrounds ranging from modern human nutrition and biochemistry to the geochemistry of fossilized bones and teeth. The contributions to this volume grow out of the Fourth Advanced Seminar on Paleodiet and provide a forum for scholars with common interests to discuss the latest advances and interpretations and chart future directions for paleodietary research.

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