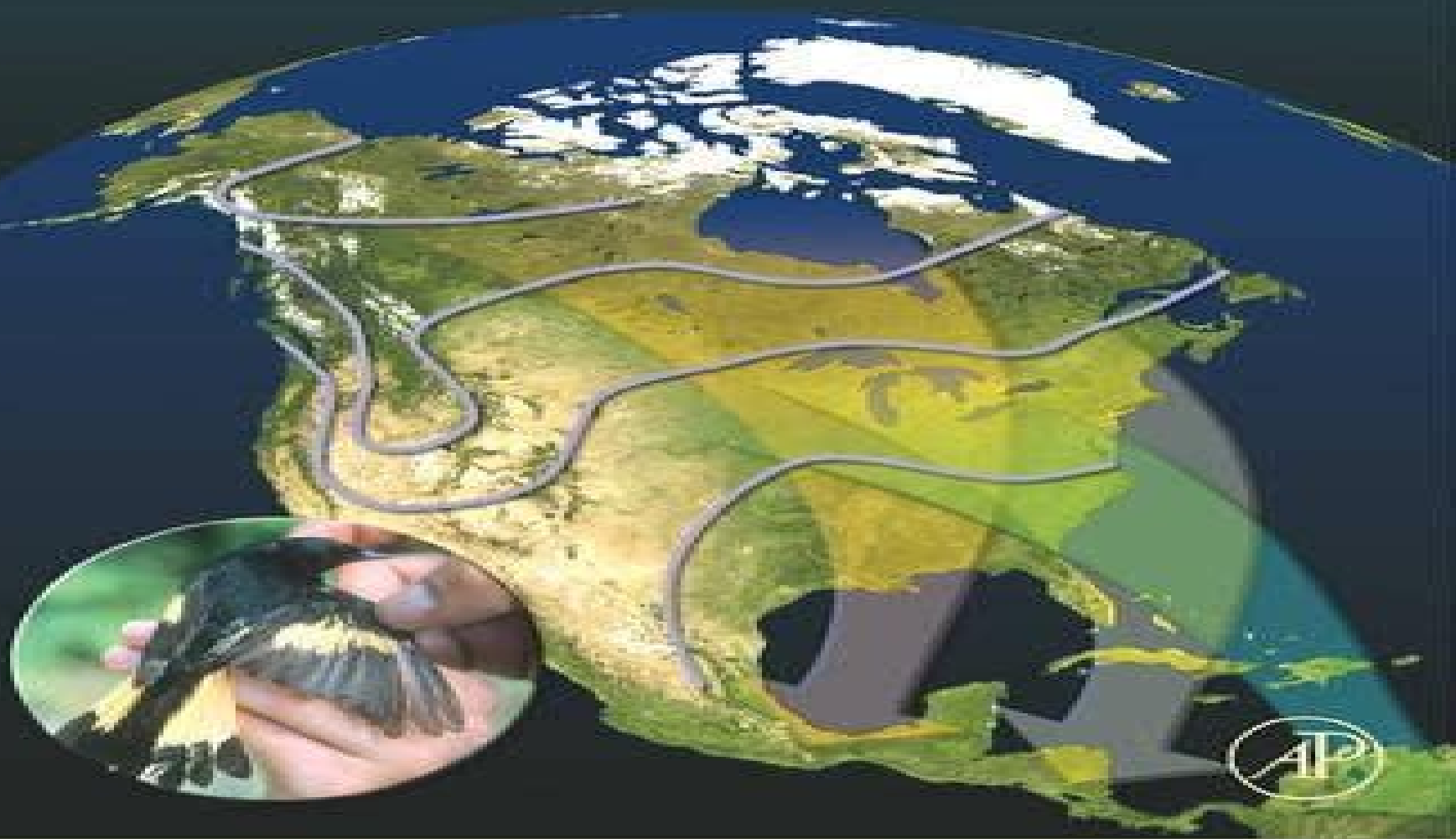


TRACKING ANIMAL MIGRATION WITH STABLE ISOTOPES

edited by

Keith A. Hobson & Leonard I. Wassenaar



VOLUME 2 IN THE TERRESTRIAL ECOLOGY SERIES

Tracking Animal Migration With Stable Isotopes Volume 2 Terrestrial Ecology

Daniel F McAuley



Tracking Animal Migration With Stable Isotopes Volume 2 Terrestrial Ecology:

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

Tracking Animal Migration with Stable Isotopes Keith A. Hobson, Leonard I. Wassenaar, 2018-09-13 Tracking Animal Migration with Stable Isotopes Second Edition provides a complete introduction to new and powerful isotopic tools and applications that track animal migration reviewing where isotope tracers fit in the modern toolbox of tracking methods The book provides background information on a broad range of migration scenarios in terrestrial and aquatic systems and summarizes the most cutting edge developments in the field that are revolutionizing the way migrant individuals and populations are assigned to their true origins It allows undergraduates graduate students and non specialist scientists to adopt and apply isotopes to migration research and also serves as a useful reference for scientists The new edition thoroughly updates the information available to the reader on current applications of this technique and provides new tools for the isotopic assignment of individuals to origins including geostatistical multi isotope approaches and the ways in which researchers can combine isotopes with routine data in a Bayesian framework to provide best estimates of animal origins Four new chapters include contributions on applications to the movements of terrestrial mammals with particular emphasis on how aspects of animal physiology can influence stable isotope values Includes an animal physiology component that is an in depth overview of the cautions and caveats related to this technique Covers marine and aquatic isoscapes and methods to track marine organisms for researchers trying to apply isotopic tracking to animals in these environments Features state of the art statistical treatments for assignment and combining diverse datasets *Stable Isotope Forensics* Wolfram Meier-Augenstein, 2017-09-28 The number one guide internationally to all aspects of forensic isotope analysis thoroughly updated and revised and featuring many new case studies This edition of the internationally acclaimed guide to forensic stable isotope analysis uses real world examples to bridge discussions of the basic science instrumentation and analytical techniques underlying forensic isotope profiling and its various technical applications Case studies describe an array of applications many of which were developed by the author himself They include cases in which isotope profiling was used in murder and drugs related crime investigations as well as for pharmaceutical and food authenticity control studies Updated with coverage of exciting advances occurring in the field since the publication of the 1st edition this 2nd edition explores innovative new techniques and applications in forensic isotope profiling as well as key findings from original research More

than a simple update though this edition has been significantly revised in order to address serious problems that can arise from non comparable and unfit for purpose stable isotope data To that end Part II has been virtually rewritten with greater emphasis now being placed on important quality control issues in stable isotope analysis in general and forensic stable isotope analysis in particular Written in a highly accessible style that will appeal to practitioners researchers and students alike Illustrates the many strengths and potential pitfalls of forensic stable isotope analysis Uses recent case examples to bridge underlying principles with technical applications Presents hands on applications that let experienced researchers and forensic practitioners match problems with success stories Includes new chapters devoted to aspects of quality control and quality assurance including scale normalisation the identical treatment principle hydrogen exchange and accreditation Stable Isotope Forensics 2nd Edition is an important professional resource for forensic scientists law enforcement officials public prosecutors defence attorneys forensic anthropologists and others for whom isotope profiling has become an indispensable tool of the trade It is also an excellent introduction to the field for senior undergraduate and graduate forensic science students All students of forensic criminology and all law enforcement officers responsible for the investigation of serious crime will want to study this book Wolfram highlights the value and future potential of Stable Isotope Forensics as an emerging powerful tool in the investigation of crime Roy McComb Deputy Director Specialist Investigations National Crime Agency NCA UK A single author text in these days is rare and the value of this book lies in the dedication and experience of the author which is evident in the clarity of prose the honest illustration of evidence and the realistic practical application of the subject it makes this a text of genuine scientific value Prof Dame Sue Black PhD DBE OBE FRSE Leverhulme Research Centre for Forensic Science University of Dundee UK The book provides an excellent vivid and comprehensible introduction into the world of stable isotope science and analytics Compared to the first edition the aspects of quality control and assurance in the analysis of stable isotopes in general and forensic application in particular are now taking much more room This allows the book to serve the target groups students academic professionals and practitioners and serves as a solid resource of basic and applicable information about the strengths and potential pitfalls of the application of stable isotope signatures The present high quality book shows the great potential of stable isotopes and is a must for everyone interested in isotope forensics M E B ttcher U Flenker Isotopes in Environmental and Health Studies January 2018 A list of errata is available at <http://booksupport.wiley.com> *Chitin* Neal S. Gupta, 2010-11-30 There are several books on properties of chitin and associated biomolecules and their biochemical significance However the present volume deals with a wide variety of biogeochemical and organic geochemical aspects of this vital macromolecule written by leading authors and experts in the field Each chapter is carefully peer reviewed and is an updated account of recent research in isotopic nanostructural biochemical microstructural geochemical paleontological and experimental aspects of chitin formation distribution and preservation in the environment and earth history **Encyclopedia of Animal Behavior** ,2019-01-21 Encyclopedia of

Animal Behavior Second Edition Four Volume Set the latest update since the 2010 release builds upon the solid foundation established in the first edition Updated sections include Host parasite interactions Vertebrate social behavior and the introduction of overview essays that boost the book s comprehensive detail The structure for the work is modified to accommodate a better grouping of subjects Some chapters have been reshuffled with section headings combined or modified Represents a one stop resource for scientifically reliable information on animal behavior Provides comparative approaches including the perspective of evolutionary biologists physiologists endocrinologists neuroscientists and psychologists Includes multimedia features in the online version that offer accessible tools to readers looking to deepen their understanding

Food webs and stable isotopes, volume II Jason Newton, Gabriele Stowasser, Rona A. R. McGill, 2023-09-29 *Shark Research* Jeffrey C Carrier, Michael R. Heithaus, Colin A. Simpfendorfer, 2018-09-03 Over the last decade the study of shark biology has benefited from the development refinement and rapid expansion of novel techniques and advances in technology These have given new insight into the fields of shark genetics feeding foraging bioenergetics imaging age and growth movement migration habitat preference and habitat use This pioneering book written by experts in shark biology examines technologies such as autonomous vehicle tracking underwater video approaches molecular genetics techniques and accelerometry among many others Each detailed chapter offers new insights and promises for future studies of elasmobranch biology provides an overview of appropriate uses of each technique and can be readily extended to other aquatic fish and marine mammals and reptiles Including chapter authors who were pioneers in developing some of the technologies discussed in the book this book serves as the first single source reference with in depth coverage of techniques appropriate for the laboratory and field study of sharks skates and rays It concludes with a unique section on Citizen Science and its application to studies of shark biology This is a must read for any marine biologist or scientist working in the field of shark biology as well as marine biology students and graduates Ethology and Behavioral Ecology of Sirenia Helene Marsh, 2022-05-09 Despite their rich fossil history there are only four surviving species of sirenians or sea cows the only fully aquatic herbivorous mammals The three species of manatees and the dugong live in the coastal waters rivers and lakes of more than 80 tropical and subtropical countries and are all on the IUCN Red List of Threatened Species This book examines sirenian conservation biology through the lens of their behavioral ecology and ethology Sirenian feeding diving movement social and reproductive behaviors are reviewed by an international team of scientists from eight countries with an emphasis on data gathered in the past 15 years The Migration Ecology of Birds Ian Newton, 2023-12-02 The Migration Ecology of Birds Second Edition covers all aspects of this absorbing subject including migratory processes problems of navigation and vagrancy timing and physiological control of migration large scale movement patterns the effects of recent climate change the problems that migrants face and the factors that limit their populations This book provides a thorough and in depth review of the state of the science with the text supplemented by abundant tables maps and diagrams Written by a world

renowned avian ecology and migration researcher this book reveals the extraordinary adaptability of birds to the variable and changing conditions across the globe This book represents the most updated and detailed review of bird migration its evolution ecology and bird physiology Written in a clear and readable style it will appeal not only to migration researchers in the field and ornithologists but to anyone with an interest in this fascinating subject Features updated and trending ecological aspects including various types of bird movements dispersal and nomadism and how they relate to food supplies and other external conditions Contains numerous tables maps diagrams a glossary and a bibliography of more than 3 000 up to date references Written by an active researcher with a distinguished career in avian ecology including migration research

New frontiers in the application of stable isotopes to ecological and ecophysiological research Keith Alan Hobson, John Whiteman, Seth Newsome, 2023-08-14 *Proceedings of The Academy of Natural Sciences (Vol. 150, 2000)*, 2006 **North American Monarch Butterfly Ecology and Conservation** Jay E. Diffendorfer, Wayne E. Thogmartin, Ryan G. Drum, 2020-10-23 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org about contact

Frontiers in Conservation Science - Highlights From Its First Year Daniel T. Blumstein, 2022-03-25 **Ethnoprimateology** Michel T. Waller, 2016-07-28 The list of challenges facing nonhuman primates in the 21st century is a long one The expansion of palm oil plantations to feed a growing consumer class is eating away at ape and monkey habitats in Southeast Asia and Central Africa Lemurs are hunted for food in the poorest parts of Madagascar while monkeys are used as medicine in Brazil Traditional cultural beliefs are maintaining demand for animal body parts in West African markets while viral YouTube videos of cute and cuddly lorises have increased their market value as pets and endangered their populations These and other issues are addressed in this book by leading researchers in the field of ethnoprimateology the study of human nonhuman primate interactions that combines traditional primatological methodologies with cultural anthropology in an effort to better understand the nuances of our economic ritualistic and ecologic relationships

Movement and Connectivity of Large Pelagic Sharks Mark Meekan, J. Marcus Drymon, David Wells, Clive N. Trueman, Yannis Peter Papastamatiou, Johann Mourier, 2023-09-08 *Ecology Abstracts*, 2000 Coverage 1982 current updated monthly This database covers current ecology research across a wide range of disciplines reflecting recent advances in light of growing evidence regarding global environmental change and destruction Major areas of subject coverage include Algae lichens Animals Annelids Aquatic ecosystems Arachnids Arid zones Birds Brackish water Bryophytes pteridophytes Coastal ecosystems Conifers Conservation Control Crustaceans Ecosystem studies Fungi Grasses Grasslands High altitude

environments Human ecology Insects Legumes Mammals Management Microorganisms Molluscs Nematodes Paleo ecology Plants Pollution studies Reptiles River basins Soil TAiga tundra Terrestrial ecosystems Vertebrates Wetlands Woodlands

Isotopes in Palaeoenvironmental Research Melanie J. Leng, 2006-01-27 This volume is intended to show how stable isotopes can be applied to understanding the palaeoenvironment There are chapters on the interpretation of isotopes in water tree rings bones and teeth lake sediments speleothems and marine sediments Crucial to the understanding of the environmental signal contained within the isotope composition of different materials is to gain more information about how rainfall isotope compositions are determined by climate Chapter 1 Darling et al describes O H and C stable isotope compositions in the modern day water and aqueous carbon cycles to provide a framework for the interpretation of these isotopes in the past The chapter on the water cycle divides naturally into a number of sections The starting point precipitation is especially important because it is the precursor to which most O and H isotope proxy studies are attempting to relate While much is understood about the isotope systematics of precipitation largely owing to the existence of the IAEA WMO Global Network for Isotopes in Precipitation GNIP important questions remain to be answered in relation to the isotope temperature gradients of past climatic conditions The chapter describes the three reservoirs of water sustaining all terrestrial proxies soil and vadose zone moisture groundwater and surface waters In each reservoir isotope effects intervene to modify to a greater or lesser extent the isotope signature of antecedent precipitation groundwaters are least affected and surface waters the most **Canadian Journal of Zoology**, 2012 *Wetland Techniques* James T. Anderson, Craig A.

Davis, 2013-10-10 Wetlands serve many important functions and provide numerous ecological services such as clean water wildlife habitat nutrient reduction and flood control Wetland science is a relatively young discipline but is a rapidly growing field due to an enhanced understanding of the importance of wetlands and the numerous laws and policies that have been developed to protect these areas This growth is demonstrated by the creation and growth of the Society of Wetland Scientists which was formed in 1980 and now has a membership of 3 500 people It is also illustrated by the existence of 2 journals *Wetlands* and *Wetlands Ecology and Management* devoted entirely to wetlands To date there has been no practical comprehensive techniques book centered on wetlands and written for wetland researchers students and managers This techniques book aims to fill that gap It is designed to provide an overview of the various methods that have been used or developed by researchers and practitioners to study monitor manage or create wetlands Including many methods usually found only in the peer reviewed or gray literature this 3 volume set fills a major niche for all professionals dealing with wetlands *Canadian Journal of Fisheries and Aquatic Sciences*, 2011-09

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