

# mapping disease transmission risk



enriching  
models using  
biogeography  
and ecology

A. Townsend Peterson

# Mapping Disease Transmission Risk Enriching Models Using Biogeography And Ecology

**Rachel Sandford**



## **Mapping Disease Transmission Risk Enriching Models Using Biogeography And Ecology:**

*Mapping Disease Transmission Risk* A. Townsend Peterson, 2014-11-26 This book illuminates new and more effective infectious disease mapping methods and integrates biogeographic and ecological factors with spatial models The author treats disease transmission areas for what they are distributions of species He argues that complex fragmented and highly irregular disease patterns can only be understood when underlying environmental drivers are considered The result is an modeling approach that challenges static spatial models and provides a framework for recasting disease mapping

*Mapping Disease Transmission Risk* A. Townsend Peterson, 2014-11-26 A revolutionary book that presents analytical tools for understanding why a particular disease is transmitted within a specific geographic area A Townsend Peterson one of the pioneers of ecological niche modeling presents a synthesis that illuminates new and more effective infectious disease mapping methods His work the culmination of twelve years of refinement breaks new ground by integrating biogeographic and ecological factors with spatial models Aimed at seasoned epidemiologists and public health experts this interdisciplinary book explains the conceptual and technical underpinnings of Peterson s approach while simultaneously describing the potentially enormous benefits of his modeling method Peterson treats disease transmission areas for what they are distributions of species The book argues that complex fragmented and highly irregular disease patterns can only be understood when underlying environmental drivers are considered The result is an elegant modeling approach that challenges static spatial models and provides a framework for recasting disease mapping Anyone working in the area of disease transmission particularly those employing predictive maps will find Peterson s book both inspiring and indispensable

**Emerging Infectious Diseases** , 2015-07      Biogeography Eric Guilbert, 2021-11-23 The recent progress in analytical methods aided by bringing in a wide range of other disciplines opens up the study to a broader field which means that biogeography now goes far beyond a simple description of the distribution of living species on Earth Originating with Alexander von Humboldt biogeography is a discipline in which ecologists and evolutionists aim to understand the way that living species are organized in connection with their environments Today as we face major challenges such as global warming massive species extinction and devastating pandemics biogeography offers hypotheses and explanations that may help to provide solutions This book presents as wide an overview as possible of the different fields that biogeography interacts with Sixteen authors from all over the world offer different approaches based on their specific areas of knowledge and experience thus we intend to illustrate the vast number of diverse aspects covered by biogeography      **Avian Malaria and Related Parasites in the Tropics** Diego Santiago-Alarcon, Alfonso Marzal, 2020-10-19 The Tropics are home to the greatest biodiversity in the world but tropical species are at risk due to anthropogenic activities mainly land use change habitat loss invasive species and pathogens Over the past 20 years the avian malaria and related parasites Order Haemosporida systems have received increased attention in the tropical regions from a diverse array of research

perspectives However to date no attempts have been made to synthesize the available information and to propose new lines of research This book provides such a synthesis by not only focusing on the antagonistic interactions but also by providing conceptual chapters on topics going from avian haemosporidians life cycles and study techniques to chapters addressing current concepts on ecology and evolution For example a chapter synthesizing basic biogeography and ecological niche model concepts is presented followed by one on the island biogeography of avian haemosporidians Accordingly researchers and professionals interested in these antagonistic interaction systems will find both an overview of the field with special emphasis on the tropics and access to the necessary conceptual framework for various topics in ecology evolution and systematics Given its conceptual perspective the book will appeal not only to readers interested in avian haemosporidians but also to those more generally interested in the ecology evolution and systematics of host parasite interactions

**Biodiversity and Health** Serge Morand,Claire Lajaunie,2017-11-27 There is a gap between the ecology of health and the concepts supported by international initiatives such as EcoHealth One Health or Planetary Health a gap which this book aims to fill Global change is accelerated by problems of growing population industrialization and geopolitics and the world s biodiversity is suffering as a result which impacts both humans and animals However Biodiversity and Health offers the unique opportunity to demonstrate how ecological environmental medical and social sciences can contribute to the improvement of human health and wellbeing through the conservation of biodiversity and the services it brings to societies This book gives an expansive and integrated overview of the scientific disciplines that contribute to the connection between health and biodiversity from the evolutionary ecology of infectious and non infectious diseases to ethics law and politics Presents the first book to give a broad and integrated overview of the scientific disciplines that contribute to health From evolutionary ecology to laws and policies this book explores the links between health and biodiversity Demonstrates how ecological sciences environmental sciences medical sciences and social sciences may contribute to improve human health

**Trash Talk** Robert William Collin,2015-09-09 This fascinating reference offers a unique take on recycling and trash tracing the role of waste in public health climate change and sustainability around the world As the popularity of sustainability grows and climate change becomes an accepted reality experts point to trash and waste as the link between environmental and public health This detailed reference one of the most comprehensive resources available on the subject examines garbage disposal on a global level from the history of waste management to the rise of green movements and recycling programs to the environmental problems caused by incineration and overflowing landfills According to urban planning scholar Robert William Collin accounting for waste will improve the chances for environmental protection public health and sustainability This country by country guide studies waste management practices and related topics from around the world including garbage strikes in Italy successful recycling programs in Switzerland trash in the streets of India and the garbage patch floating in the Pacific Ocean Country entries cover a brief history of garbage disposal current methods of

removal recycling and waste management problems specific to the region Additional content addresses air and water pollution greenhouse gas emissions E waste and hazardous and nuclear wastes

### **Evolutionary Biology:**

**Biodiversification from Genotype to Phenotype** Pierre Pontarotti, 2015-07-10 This book presents 20 selected contributions to the 18th Evolutionary Biology Meeting which took place in September 2014 in Marseille They are grouped under the following major themes Genotype to Phenotype Genetic Mechanisms of Diversification Evolutionary Mechanisms Speciation and Biodiversity The aims of these annual meetings in Marseille are to bring together leading evolutionary biologists and other scientists who employ evolutionary biology concepts e g for medical research and to promote the exchange of ideas and encourage interdisciplinary collaborations Offering an up to date overview of recent advances in the field of evolutionary biology this book represents an invaluable source of information for scientists teachers and advanced students

**Geospatial Technology for Human Well-Being and Health** Fazlay S. Faruque, 2022-03-21 Over the last thirty years or so there have been tremendous advancements in the area of geospatial health however somehow two aspects have not received as much attention as they should have received These are a limitations of different spatial analytical tools and b progress in making geospatial environmental exposure data available for advanced health science research and for medical practice This edited volume addresses those two less explored areas of geospatial health with augmented discussions on the theories methodologies and limitations of contemporary geospatial technologies in a wide range of applications related to human well being and health In 20 chapters readers are presented with an up to date assessment of geospatial technologies with an emphasis on understanding general geospatial principles and methodologies that are often overlooked in the research literature As a result this book will be of interest to both newcomers and experts in geospatial analysis and will appeal to students and researchers engaged in studying human well being and health Chapters are presenting new concepts new analytical methods and contemporary applications within the framework of geospatial applications in human well being and health The topics addressed by the various chapter authors include analytical approaches newer areas of geospatial health application introduction to unique resources geospatial modeling and environmental pollution assessments for air water and soil Although geospatial experts are expected to be the primary readers this book is designed in such a way so that the public health professionals environmental health scientists and clinicians also find it useful with or without any familiarity with geospatial analysis

**Applications of Novel Analytical Methods in Epidemiology** Moh A. Alkhamis, Victoria J. Brookes, Kimberly VanderWaa, 2018-12-07 The repertoire of quantitative analytical techniques in disciplines such as ecology decision science and evolutionary biology has grown in part enabled by the development and increased availability of computational resources Integration of cutting edge quantitative tools into veterinary epidemiology that have been borrowed from such disciplines has offered opportunities to advance the study of disease dynamics in animal populations to improve and guide decision making related to disease prevention control or eradication Furthermore the need to explore new

analytical methods for veterinary epidemiology has been driven by the increasing availability and complexity of animal disease data. The objective of this e book is to contribute to current methods in epidemiology by 1 presenting and discussing novel analytical tools that help advance our understanding of epidemiology and 2 demonstrating how inferences emerging from the application of novel analytical tools can be incorporated into decision making related to animal health. The e book constitutes a collection of articles that explore the applications of a variety of analytical methods such as machine learning, Bayesian risk assessment and an advanced form of social network analysis in the modern epidemiologic study of animal diseases.

**Advancements in Understanding Zoonotic Parasitic Diseases** Rodrigo Morchón García, Simona Gabrielli, Lavinia Ciuca, Elena Carreton, Ettore Napoli, 2025-01-27. This Research Topic is a continuation of the successful topic launched in Veterinary Infectious Diseases <https://www.frontiersin.org/research-topics/13197/zoonotic-diseases-their-hosts-and-vectors>. The field of zoonotic parasitic diseases, which can be transmitted between animals and humans, is currently experiencing significant advancements. These diseases, caused by viruses, bacteria, parasites, and fungi, vary widely in their symptoms and severity, with some leading to severe illness or death. The transmission of these parasites can occur through various sources, including food, domestic and wild animals, and vectors. However, the detection, treatment, and control of these diseases are often complicated by a lack of comprehensive knowledge about them. This issue is further exacerbated by factors such as global warming, which is leading to an exponential increase in many zoonotic diseases, and the exchange of animals and people through travel or purchases, which can introduce new vectors to previously disease-free areas. The primary aim of this research topic is to enhance our understanding of zoonotic parasitic diseases, including those that have the potential to become zoonotic. This includes gaining a deeper understanding of their biology, epidemiology, and the local, regional, country, or global advances in their diagnosis, treatment, and control. Additionally, the research topic aims to facilitate the exchange of information about these diseases, particularly in relation to their proteome, immunome, and molecular aspects, as well as new vaccinal and diagnostic tools.

**La biogéographie** Éric Guilbert, 2022-09-23. Les progrès récents des méthodes d'analyse en biologie impliquant différentes disciplines ouvrent un large panel d'études qui fait aujourd'hui de la biogéographie une approche intégrative de l'évolution du vivant. En tant que telle, la biogéographie va bien au-delà d'une simple description de la répartition des espèces vivantes sur Terre. La biogéographie est une discipline où écologistes et évolutionnistes cherchent à comprendre la manière dont les espèces vivantes s'organisent en relation avec leur environnement. Face aux défis majeurs tels que le réchauffement climatique, l'extinction massive d'espèces ou les pandémies, la biogéographie fournit les éléments indispensables à l'élaboration des solutions. La biogéographie présente un large aperçu des différents domaines de cette discipline. Les auteurs internationaux y développent différentes analyses sur la base de leurs connaissances et de leur expérience, illustrant les vastes domaines couverts par la biogéographie.

**Analyzing and Modeling Spatial and Temporal Dynamics of Infectious Diseases** Dongmei Chen, Bernard Moulin, Jianhong Wu, 2014-12-01. Features modern research and

methodology on the spread of infectious diseases and showcases a broad range of multi disciplinary and state of the art techniques on geo simulation geo visualization remote sensing metapopulation modeling cloud computing and pattern analysis Given the ongoing risk of infectious diseases worldwide it is crucial to develop appropriate analysis methods models and tools to assess and predict the spread of disease and evaluate the risk Analyzing and Modeling Spatial and Temporal Dynamics of Infectious Diseases features mathematical and spatial modeling approaches that integrate applications from various fields such as geo computation and simulation spatial analytics mathematics statistics epidemiology and health policy In addition the book captures the latest advances in the use of geographic information system GIS global positioning system GPS and other location based technologies in the spatial and temporal study of infectious diseases Highlighting the current practices and methodology via various infectious disease studies Analyzing and Modeling Spatial and Temporal Dynamics of Infectious Diseases features Approaches to better use infectious disease data collected from various sources for analysis and modeling purposes Examples of disease spreading dynamics including West Nile virus bird flu Lyme disease pandemic influenza H1N1 and schistosomiasis Modern techniques such as Smartphone use in spatio temporal usage data cloud computing enabled cluster detection and communicable disease geo simulation based on human mobility An overview of different mathematical statistical spatial modeling and geo simulation techniques Analyzing and Modeling Spatial and Temporal Dynamics of Infectious Diseases is an excellent resource for researchers and scientists who use manage or analyze infectious disease data need to learn various traditional and advanced analytical methods and modeling techniques and become aware of different issues and challenges related to infectious disease modeling and simulation The book is also a useful textbook and or supplement for upper undergraduate and graduate level courses in bioinformatics biostatistics public health and policy and epidemiology

Network-based Modeling for Risk Assessment of Infectious Disease Transmission Md Mahbubul Huq Riad, 2020 Infectious disease modeling is crucial to optimize surveillance preventative measures and resource allocation Simulation with infectious disease models is very convenient when the resource requirement for data collection and experimental studies are prohibitively high or even unethical A vast number of approaches have been proposed to model infectious disease transmission from different perspectives In this dissertation we investigate network based disease models for efficient resource allocation effective mitigation measures and accurate risk assessment We also investigate a filtering based parameter estimation and forecasting framework usable when proper incidence data is available First we provide a guideline for developing a network based model and simulation framework for any infectious diseases As an example we provide a step by step method for developing a spatially explicit model for infectious diseases with host demographic data We show how to devise effective mitigation strategies from simulation results using the spatially explicit model Our second contribution is developing a parameter estimation framework using a sequential Monte Carlo filter a compartmental disease model and historical incidence data Parameter estimation for any infectious disease model is crucial for accurately informing

resource allocation and control measures Our method is particularly important for its adaptability to the availability of new incidence data of any epidemic This parameter estimation framework is not limited to epidemic models rather it can be used for any systems with a state space model Third we propose an ensemble Kalman filter that provides dual state parameter estimates for infectious diseases As an online inferential method the ensemble Kalman Filter can perform real time forecast during an outbreak The framework is capable of accurate short to mid term forecasts Fourth we develop a risk assessment framework for infectious diseases with a comprehensive two layer network a permanent layer representing permanent contacts among individuals and a data driven layer for temporary contacts due to movements We combine the two layer network with a compartmental model and implement a Gillespie algorithm to identify the disease evolution and assess the spatial spreading risk The proposed risk assessment framework suggests some focal points spatial for disease preparedness providing critical directions to inform interventions in the field Finally we investigate the strong correlation of the arthropod abundance and host interaction with vector borne pathogen transmission and we developed a risk assessment framework using climate average temperature and rainfall and host demographic host density and movement data particularly suitable for regions with unreported or under reported incidence data This framework consisted of a spatiotemporal network based approach coupled with a compartmental disease model and a non homogeneous Gillespie algorithm We have identified the spatiotemporal suitability map the spatial risk map the significant incidence window and peak incidence period The outcomes of the framework comprise of weather dependent spatiotemporal suitability maps and probabilistic risk maps for spatial infection transmission This framework is capable of vector borne disease risk assessment without historical incidence data and can be a useful tool for preparedness with accurate human movement data



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