

Risk assessment in conservation biology

M. A. Burgman, S. Foster and H. B. Akçaya, 1993.
Chapman and Hall, London.
(Distributed in Australia and New Zealand by
Thomas Nelson Australia.)
314 pp., 7 chapters + 4 appendices.
RRP A\$119.95.

REMARKS ON CONTENT

POPULATION viability analysis (PVA) has become one of the standard tools of conservation biology. It is, usually, few simplifications, covered, or referred to. Most readers, in the "grey" world of internal government reports, where the routes or "what-if" scenarios become transformed into the firm basis for policy settings. The problem is that tough games of population parameters enter the black box of a modelling package, to emerge as attractive and apparently precise graphs of extinction probability as a function of population size. Somewhere in the process, it is often forgotten that the quantitative predictions cannot be better than the quality of the parameters which went into them.

Any attempt to change the process is therefore welcome. In general, this book performs that task admirably. Its stated objectives are "To stimulate interest in conservation biology as general and risk assessment in particular" and to "attempt to bridge the gap between modelling and biology". It meets the latter, attracting particularly well. Most treatments of stochastic modelling in ecology descend rapidly into a series of stages, before concluding that only the most trivial models can be handled correctly. This book is an exception, but should be awarded to anyone who can follow the formulae of a basic statistics text. Most of the discussion is based on the results of repeated simulations, sidestepping the problems of analysis of variance, etc.

In scope, the book covered is rather wider than the title suggests. This is a text on stochastic single species models, not a content complete, correct and application to all aspects of ecology, rather than just conservation biology. Whether this is considered an advantage or disadvantage will depend on the perspective of the reader, but the book is probably the most accessible treatment of stochastic models currently available. Initially, unstructured models are discussed, followed by age and stage structured models, metapopulation models and a brief discussion of conservation genetics.

In my opinion, the chapter on age and stage structured models is the most useful part of the book. Good descriptions of unstructured models, metapopulations and conservation genetics are available elsewhere (although not in a single book), but I know of no other treatment of structured models which would not offend the vast majority of practicing ecologists. Almost all conservation biology problems require models structured either by age or life-history stage. The

descriptions here are wide ranging and accessible without being simplistic. While they would enable readers to write their own models, the most useful application is that they will enable non-expert readers to pick a suitable model, to understand what parameters should be fed into it and to understand the results generated by a packaged programme.

No text can entirely cover a field as large as conservation biology. The most obvious omission is any discussion of the modelling of interspecific interactions. Despite the recognition in the last chapter that interactions are often a result of introduced predators, pathogens or competitors, these factors are not discussed further and do not appear in the index, in the words of Greene Campbell (1991), this is like a cancer example of the disastrous "isolated population paradigm" in conservation biology, seeking to understand threats to populations that exist because the population is small. The book has less to offer the "isolating population paradigm", which seeks to understand why the population is decreasing.

A particularly attractive feature of the book is that new ideas are introduced through case studies. The examples, both real and ideal models are introduced through whole studies as *Mimastichus*, density dependence and environmental stochasticity are introduced through Mayhew's (1989) study of striped perch, and structured models are introduced via a model of log-scaled turtle frequency. This approach not only keeps one's interest, but more importantly, enables one to evaluate how reasonable are the assumptions made and how useful are the insights gained.

Each model is presented as an algorithm, a series of simple numbered steps, contained in Fortran and algebra rather than in a particular computer language. I find this much more satisfactory than the likes of BASIC or PASCAL that are sometimes included in texts, but the approach is not without its problems. For all but the most computer conscious programmers, the task of writing appropriate input and output routines and of translating the algorithms into code will distract attention away from the process of modelling itself. A useful (though expensive) compromise is to purchase a risk analysis "add on" to a standard spreadsheet. The add on handles all the tedious jobs such as generating random numbers from a variety of distributions, storing the model in any times and producing summaries of the output. Attention can then be focused on the important part: the model itself. One suitable add on is @RISK (Palisade Corporation, 31 Ducker Road, Newfield, NY, USA, 1989).

The authors state in the preface that "the most valuable aspect of building models is not the predictions they make, but the process of model building itself." Throughout, they support this argument by showing how progressive elaboration of models can lead to ecological understanding. This statement does not

Risk Assessment In Conservation Biology

LL Leslie

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular shape partially visible behind it.

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Risk Assessment in Conservation Biology Mark A. Burgman,1992 **Risk Assessment in Conservation Biology** Mark A. Burgman,S. Ferson,H. R. Akcakaya,1996 *Risk Assessment in Conservation Biology* Mark A. Burgman,1992 **Risk Assessment in Conservation Biology** M.A. Burgman,S. Ferson,H.R. Akçakaya,1993-01-31 This book is a cohesive guide to the available methods that can be used in population viability analysis It is therefore extremely valuable to both the practitioner of conservation biology and the theoretical population biologist Population-Level Ecological Risk Assessment Lawrence W. Barnthouse,Jr. Munns,Mary T. Sorensen,2007-09-25 Most ecological risk assessments consider the risk to individual organisms or organism level attributes From a management perspective however risks to population level attributes and processes are often more relevant Despite many published calls for population risk assessment and the abundance of available scientific research and technical tool **Ecological Risk Management** Hiroyuki Matsuda,2021-05-06 This book introduces the theory and practice of ecological risk management Using recent and live case studies in Japan the book explains the use of basic mathematical techniques in extinction risk adaptive population management avian collision risk in wind farms potential biological removal for marine mammals and ecological risk assessment of heavy metals The focus of this book is on case studies of nature conservation in Japan including internationally renowned topics of Japanese fisheries Shiretoko World Heritage Fukushima Daiichi Nuclear Power Plant accident It also covers the adaptive risk management of the new coronavirus disease The book comprises four parts covering ecotoxicology fisheries wildlife management and conservation and ecosystem based management It differs from other books in having its primary interest in human impacts on animals plant and ecosystems while existing works in this area concentrate on the fate of toxic substances in the environments and their effects on humans This book is unique in that it indicates various environmental issues that the theoretical ecology is potentially applicable without concentrating into any particular subject such as ecotoxicology or conservation biology Primary readers are undergraduate graduate students staffs of environmental consultant companies and environmental NPOs and journalists Readers will find this book useful for its abundant information on case studies of ecological risk management and consensus building in Japan *Encyclopedia of Biodiversity* ,2013-02-05 The 7 volume Encyclopedia of Biodiversity Second Edition maintains the reputation of the highly regarded original presenting the most current information available in this globally crucial area of research and study It brings together the dimensions of biodiversity and examines both the services it provides and the measures to protect it Major themes of the work include the evolution of biodiversity systems for classifying and defining biodiversity ecological patterns and theories of biodiversity and an assessment of contemporary patterns and trends in biodiversity The science of biodiversity has become the science of our future It is an interdisciplinary field spanning areas of both physical and life sciences Our awareness of the loss of biodiversity has brought a long overdue appreciation of the magnitude of this loss and a determination to develop the

tools to protect our future Second edition includes over 100 new articles and 226 updated articles covering this multidisciplinary field from evolution to habits to economics in 7 volumes The editors of this edition are all well respected instantly recognizable academics operating at the top of their respective fields in biodiversity research readers can be assured that they are reading material that has been meticulously checked and reviewed by experts Approximately 1 800 figures and 350 tables complement the text and more than 3 000 glossary entries explain key terms

Theories in Ecological Risk Assessment Masashi Kamo, 2023-05-04 This book introduces various mathematical models used in ecological risk assessment primarily discussing models used in hazard assessment The book aims to link ecology and conservation biology with risk assessments bringing together the knowledge of ecotoxicology and ecology for effective risk assessment The first part describes population level assessment in ecological risk assessment The chapters cover current methodologies for ecological risk assessment individual level assessment population dynamics models for population level assessment case studies mathematical models for population extinctions the derivation of mean time to extinction MTE and their case studies The second part of the book discusses the mathematical models involved in hazard assessments It introduces the method of risk assessment using species sensitivity distributions SSDs hazard assessment of metals chemical mixtures using the Michaelis Menten equation basic elements of statistics and related topics Expected readers are risk assessors in governments and public sectors students and young researchers interested in environmental science The book is made accessible and easy to follow by beginners in mathematical biology and theoretical ecology

Risk Assessment in Environmental Management D. Kofi Asante-Duah, 1998-10-20 Attempts to provide a concise yet comprehensive overview of the many facets aspects relating to chemical risk assessments It presents some very important tools and methodologies that can be used to help resolve environmental contamination problems in a consistent efficient and cost effective way

Demographic Toxicity H. Resit Akcakaya, John D. Stark, Todd S. Bridges, 2008-04-25 Each chapter of this edited volume describes the application of a population model to a particular species The book demonstrates how various life history characteristics of the species are incorporated into the model how ecotoxicological impacts are modeled and how the results of the model has been or can be used in risk assessment A powerful software tool is included

Ecological Risk Assessment Decision Support System Kevin Howard Reinert, Steven M. Bartell, Gregory R. Biddinger, 1998

Risks and Decisions for Conservation and Environmental Management Mark Burgman, 2005-04-07 This book outlines how to conduct a complete environmental risk assessment The first part documents the psychology and philosophy of risk perception and assessment introducing a taxonomy of uncertainty and the importance of context It provides a critical examination of the use and abuse of expert judgement and goes on to outline approaches to hazard identification and subjective ranking that account for uncertainty and context The second part of the book describes technical tools that can assist risk assessments to be transparent and internally consistent These include interval arithmetic ecotoxicological methods logic trees and Monte

Carlo simulation These methods have an established place in risk assessments in many disciplines and their strengths and weaknesses are explored The last part of the book outlines some new approaches including p bounds and information gap theory and describes how quantitative and subjective assessments can be used to make transparent decisions

Reintroduction Biology John G. Ewen,Doug P. Armstrong,Kevin A. Parker,Philip J. Seddon,2012-01-30 This book aims to further advance the field of reintroduction biology beyond the considerable progress made since the formation of the IUCN SSC Re introduction Specialist Group Using an issue based framework that purposely avoids a structure based on case studies the book s central theme is advocating a strategic approach to reintroduction where all actions are guided by explicit theoretical frameworks based on clearly defined objectives Issues covered include husbandry and intensive management monitoring and genetic and health management Although taxonomically neutral there is a recognised dominance of bird and mammal studies that reflects the published research in this field The structure and content are designed for use by people wanting to bridge the research management gap such as conservation managers wanting to expand their thinking about reintroduction related decisions or researchers who seek to make useful applied contributions to reintroduction

Encyclopedia of the Anthropocene ,2017-11-27 Encyclopedia of the Anthropocene Five Volume Set presents a currency based global synthesis cataloguing the impact of humanity s global ecological footprint Covering a multitude of aspects related to Climate Change Biodiversity Contaminants Geological Energy and Ethics leading scientists provide foundational essays that enable researchers to define and scrutinize information ideas relationships meanings and ideas within the Anthropocene concept Questions widely debated among scientists humanists conservationists politicians and others are included providing discussion on when the Anthropocene began what to call it whether it should be considered an official geological epoch whether it can be contained in time and how it will affect future generations Although the idea that humanity has driven the planet into a new geological epoch has been around since the dawn of the 20th century the term Anthropocene was only first used by ecologist Eugene Stoermer in the 1980s and hence popularized in its current meaning by atmospheric chemist Paul Crutzen in 2000 Presents comprehensive and systematic coverage of topics related to the Anthropocene with a focus on the Geosciences and Environmental science Includes point counterpoint articles debating key aspects of the Anthropocene giving users an even handed navigation of this complex area Provides historic seminal papers and essays from leading scientists and philosophers who demonstrate changes in the Anthropocene concept over time

ASSESSMENT AND CONTROL OF BIOLOGICAL INVASION RISKS Fumito Koike,2006 Biological invasion an issue of growing importance due to the significant increase in international transportation and trade can disturb the balance of local ecosystems and even destroy them This collection of papers presented at the International Conference on Assessment and Control of Biological Invasion Risks held in August 2004 at Yokohama National University discusses risk assessment risk management and eradication It also includes contributions reporting on the current status of invasion and the properties of

alien species in East Asia The Journal of Wildlife Management ,2003 **Invasive Species** Andrew P. Robinson,Terry Walshe,Mark A. Burgman,Mike Nunn,2017-06-08 With climate change and increasing globalisation of trade and travel the risks presented by invasive pests and pathogens to natural environments agriculture and economies have never been greater and are only increasing with time Governments world wide are responding to these increased threats by strengthening quarantine and biosecurity This book presents a comprehensive review of risk based techniques that help policy makers and regulators protect national interests from invasive pests and pathogens before at and inside national borders Selected from the research corpus of the Centre of Excellence for Biosecurity Risk Analysis at the University of Melbourne this book provides solutions that reflect scientific rigour coupled with practical hands on applications Focusing on surveillance stochastic modelling intelligence gathering decision making and risk communication the contents combine the strengths of risk analysts mathematicians economists biologists and statisticians The book presents tested scientific solutions to the greatest challenges faced by quarantine and biosecurity policy makers and regulators today *Techniques for Wildlife Investigations and Management* Clait E. Braun,Wildlife Society,2005 International Congress on Modelling and Simulation, December 6-10, 1993, The University of Western Australia Michael McAleer,Anthony J. Jakeman,1994 *An Appraisal of the Suitability of the CITES Criteria for Listing Commercially-exploited Aquatic Species* ,2000

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