

RESEARCH ARTICLE

Population dynamics and socio-spatial organization of the Aurignacian: Scalable quantitative demographic data for western and central Europe

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Data Availability Statement: All data files are available from the CRC 806 database (<https://cr080606.uni-koeln.de/>), including site data (<https://dx.doi.org/10.5880/SF8806.42/>) and spae-material data (see Supporting Information files, this article).

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Abstract

Demographic estimates are presented for the Aurignacian techno-complex (–42,000 to 33,000 y calBP) and discussed in the context of socio-spatial organization of hunter-gatherer populations. Results of the analytical approach applied estimate a mean of 1,500 persons (upper limit: 3,300; lower limit: 800) for western and central Europe. The temporal and spatial analysis indicates an increase of the population during the Aurignacian as well as marked regional differences in population size and density. Demographic increase and patterns of socio-spatial organization continue during the subsequent early Gravettian period. We introduce the concept of Core Areas and Extended Areas as informed analytical spatial scales, which are evaluated against additional chronological and archaeological data. Lithic raw material transport and personal ornaments serve as correlates for human mobility and connectedness in the interpretative framework of this study. Observed regional differences are set in relation with the new demographic data. Our large-scale approach on Aurignacian population dynamics in Europe suggests that past socio-spatial organization followed socially inherent rules to establish and maintain a functioning social network of extremely low population densities. The data suggest that the network was fully established across Europe during the early phase of the Gravettian, when demographic as well as cultural developments peaked.

Introduction

A key issue in Paleolithic research is the understanding of how demographic, social, technological and environmental factors influenced the successful spread and establishment of anatomically modern Humans across Europe. It is commonly accepted that the Aurignacian techno-complex constitutes a pan-European phenomenon [1, 2]. Its homogeneous archaeological appearance at this scale has favored models considering fast-spreading, highly mobile and interconnected populations. Yet, explanatory models of biological and cultural developments compete on mode and pace. This is commonly due to the poor chronological resolution,

Quantitative Population Dynamics

**Douglas G. Chapman, Vincent F.
Gallucci**



Quantitative Population Dynamics:

Quantitative Population Dynamics Douglas George Chapman, V. F. Gallucci, 1981 *Statistical Ecology* Douglas G. Chapman, Vincent F. Gallucci, 1981 Population Dynamics and Laboratory Ecology Robert Desharnais, 2005-08-04
Population Dynamics and Laboratory Ecology highlights the contributions laboratory studies are making to our understanding of the dynamics of ecological and evolutionary systems Chapters address the scientific rationale for laboratory ecology its historical role within the broader discipline and recent advances in research The book presents results from a wide range of laboratory systems including insects mites plankton protists and microbes A common theme throughout the book is the value of microcosm studies in advancing our knowledge of ecological and evolutionary principles Each chapter is authored by scientists who are leading experts in their fields The book addresses fundamental questions that are of interest to biologists whether they work in the laboratory or field or whether they are primarily empiricists or theorists Details a scientific rationale for laboratory systems in ecological and evolutionary studies Offers a view on historical role of laboratory studies Includes examples of recent research advances in ecology and evolution using laboratory systems ranging from insects to microbes Integrates mathematics statistics and experimental studies **Equadiff 82** H. W. Knobloch, K. Schmitt, 2007-01-05

Biological Control of Arthropod Forest Pests of the Western United States T. S. Bellows, 1998
Statistical Inference for Piecewise-deterministic Markov Processes Romain Azais, Florian Bouquet, 2018-07-30
Piecewise deterministic Markov processes form a class of stochastic models with a sizeable scope of applications biology insurance neuroscience networks finance Such processes are defined by a deterministic motion punctuated by random jumps at random times and offer simple yet challenging models to study Nevertheless the issue of statistical estimation of the parameters ruling the jump mechanism is far from trivial Responding to new developments in the field as well as to current research interests and needs Statistical inference for piecewise deterministic Markov processes offers a detailed and comprehensive survey of state of the art results It covers a wide range of general processes as well as applied models The present book also dwells on statistics in the context of Markov chains since piecewise deterministic Markov processes are characterized by an embedded Markov chain corresponding to the position of the process right after the jumps High Resolution Microbial Single Cell Analytics Susann Müller, Thomas Bley, 2011-03-04 Light Microscopic Analysis of Mitochondrial Heterogeneity in Cell Populations and Within Single Cells by S Jakobs S Stoldt and D Neumann Advanced Microscopy of Microbial Cells by J A J Haagensen B Regenberg and C Sternberg Algebraic and Geometric Understanding of Cells Epigenetic Inheritance of Phenotypes Between Generations by K Yasuda Measuring the Mechanical Properties of Single Microbial Cells by C R Thomas J D Stenson and Z Zhang Single Cell Analytics Pushing the Limits of the Doable by H Kortmann L M Blank and A Schmid Cultivation Independent Assessment of Bacterial Viability by F Hammes M Berney and T Egli Resolution of Natural Microbial Community Dynamics by Community Fingerprinting Flow Cytometry and Trend

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Fish Population Dynamics, Monitoring, and Management Ichiro Aoki, Takashi Yamakawa, Akinori

Takasuka, 2018-05-22 This book explores how we can solve the urgent problem of optimizing the use of variable uncertain but finite fisheries resources while maintaining sustainability from a marine ecosystem conservation perspective It offers readers a broad understanding of the current methods and theory for sustainable exploitation of fisheries resources and introduces recent findings and technological developments The book is divided into three parts Part I discusses fish stock dynamics and illustrates how ecological processes affecting life cycles and biological interactions in marine environments lead to fish stock variability in space and time in major fish groups small pelagic fish demersal fish and large predatory fish These insights shed light on the mechanisms underlying the variability in fish stocks and form the essential biological basis for fisheries management Part II addresses the technologies and systems that monitor changes in fisheries resources and marine ecosystems using two approaches fishery dependent and fishery independent data It also describes acoustic surveys and biological sampling as well as stock assessment methods Part III examines management models for effectively assessing the natural variability in fisheries resources The authors explore ways of determining the allowable catch in response to changes in stock abundance and how to incorporate ecological processes and monitoring procedures into management models This book offers readers a broad understanding of sustainable exploitation as well as insights into fisheries management for the next generation

Stochastic Population Dynamics in Ecology and Conservation Russell Lande, Steinar Engen, Bernt-Erik Sæther, 2003 All populations fluctuate stochastically creating a risk of extinction that does not exist in deterministic models with fundamental consequences for both pure and applied ecology This book provides the most comprehensive introduction to stochastic population dynamics combining classical background material with a variety of modern approaches including new and previously unpublished results by the authors illustrated with examples from bird and mammal populations and insect communities Demographic and environmental stochasticity are introduced with statistical methods for estimating them from field data The long run growth rate of a population is explained and extended to include age structure with both demographic and environmental stochasticity Diffusion approximations facilitate the analysis of extinction dynamics and the duration of the final decline Methods are developed for estimating delayed density dependence from population time series using life history data Metapopulation viability and the spatial scale of population fluctuations and extinction risk are analyzed Stochastic dynamics and statistical uncertainty in population parameters are incorporated in Population Viability Analysis and strategies for sustainable harvesting Statistics of species diversity measures and species abundance distributions are described with implications for rapid assessments of biodiversity and methods are developed for

partitioning species diversity into additive components Analysis of the stochastic dynamics of a tropical butterfly community in space and time indicates that most of the variance in the species abundance distribution is due to ecological heterogeneity among species so that real communities are far from neutral Quantitative Fish Dynamics Terrance J. Quinn,Richard B. Deriso,1999-03-25 This book serves as an advanced text on fisheries and fishery population dynamics and as a reference for fisheries scientists It provides a thorough treatment of contemporary topics in quantitative fisheries science and emphasizes the link between biology and theory by explaining the assumptions inherent in the quantitative methods The analytical methods are accessible to a wide range of biologists and the book includes numerous examples The book is unique in covering such advanced topics as optimal harvesting migratory stocks age structured models and size models **Federal Register** ,1999-11 **Advances In Mathematical Population Dynamics -- Molecules, Cells And Man - Proceedings Of The 4th International Conference On Mathematical Population Dynamics** O Arino,David E Axelrod,Marek Kimmel,1997-12-04 This book presents a new approach to the subject of cosmology It fully exploits Einstein s theory of general relativity It is found that the most general formal expression of the theory replaces the 10 component tensor formalism with a 16 component quaternion formalism This leads to a unified field theory where one field incorporates gravitation and electromagnetism The theory predicts an oscillating universe cosmology with a spiral configuration Dark matter is explained in terms of a sea of particle antiparticle pairs each in a particular derived ground state This leads to an explanation for the separation between matter and antimatter in the universe There is a brief discussion of black holes and pulsars The final chapter delves into philosophical considerations such as the different types of truth positivism versus realism and a discussion of the role of the Mach principle in physics and cosmology a *Behavioral Ecology of Insect Parasitoids* Eric Wajnberg,Carlos Bernstein,Jacques van Alphen,2008-04-30 Written by a team of leading international specialists Behavioral Ecology of Insect Parasitoids examines the optimal behaviors that parasitoids exhibit in order to maximize long term offspring production It is an essential reference for research scientists and students studying these fascinating insects or for anyone involved in using parasitoids in biological control programs Reviews topical issues including cutting edge research on parasitoid decision making and the implications for biological control Explores applications in other fields provides information on the latest research methods and includes helpful case studies and statistical tools Creates a deeper understanding of the link between behavioural strategies and host mortality resulting in more efficient selective pest management programs Overall this is a fascinating volume that provides a significant contribution to the literature on parasitoid insects It goes a long way toward providing insights into numerous aspects of parasitoid behavior and will stimulate a diversity of future projects something that should be the goal of any such text I highly recommend Wajnberg et al for all of those working on the biology or evolution of parasitoids Palaios 2009 **Population Viability Analysis** Steven R. Beissinger,Dale R. McCullough,2002-05-04 Many of the world s leading conservation and population biologists evaluate what

has become a key tool in estimating extinction risk and evaluating potential recovery strategies population viability analysis or PVA Marine Eutrophication and Population Dynamics Giuseppe Colombo,1992 **Wildlife Population Growth**

Rates R. M. Sibly,J. Hone,T. H. Clutton-Brock,2003-08-07 What determines where a species lives And what determines its abundance This book takes a fresh approach to some of the classic questions in ecology Despite great progress in the twentieth century much more remains to be done before we can provide full answers to these questions The methods described and deployed in this book point the way forward The core message of the book is that the key insights come from understanding what determines population growth rate and that application of this approach will make ecology a more predictive science Topics covered include population regulation density dependence the ecological niche resource and interference competition habitat fragmentation and the ecological effects of environmental stress together with applications to conservation biology wildlife management human demography and ecotoxicology After a substantial introduction by the editors the book brings together contributions from leading scientists from Australia New Zealand North America Europe and the U K **POPULATION EDUCATION** ZAHOOR RASHID RATHER,2008-03-20 The book entitled Population Education is written compiled and illustrated as per the need of undergraduate and postgraduate students i e for B Ed and M A Education who are pursuing their degrees from any Indian University *Northern Spotted Owl Management Plan in the National Forests (CA,OR,WA)* ,1992 **The Magic Ring** Piero Mella,2021-04-01 This book presents a new understanding on how control systems truly operate and explains how to recognize simulate and improve control systems in all fields of activity It also reveals the pervasive ubiquitous and indispensable role of control processes in our life and the need to develop a control oriented thinking based on uncomplicated but effective models derived from systems thinking that is a true discipline of control Over the book s thirteen chapters Piero Mella shows that there are simple control systems rather than complex ones that can easily help us to manage complexity without drawing upon more sophisticated control systems It begins by reviewing the basic language of systems thinking and the models it allows users to create It then introduces the control process presenting the theoretical structure of three simple control systems we all can observe in order to gain fundamental knowledge from them about the basic structure of a control system Then it presents the anatomy of the simplest magic ring and the general theoretical model of any control system This is followed by an introduction to a general typology of control systems and a broader view of control systems by investigating multi lever control systems and multi objective systems The book undertakes the concepts through various environments increasingly broader in scope to suggest to readers how to recognize therein control systems manifestations in everyday life and in natural phenomena Updated for the 2nd edition new chapters explore control systems regulating the biological environment and the organizations with an in depth study of the control of quality productivity production stocks and costs Finally it concludes by dealing with the learning process problem solving and designing the logical structure of control systems **Integrated Population Models** Michael Schaub,Marc

Kéry, 2021-11-12 Integrated Population Models Theory and Ecological Applications with R and JAGS is the first book on integrated population models which constitute a powerful framework for combining multiple data sets from the population and the individual levels to estimate demographic parameters and population size and trends. These models identify drivers of population dynamics and forecast the composition and trajectory of a population. Written by two population ecologists with expertise on integrated population modeling, this book provides a comprehensive synthesis of the relevant theory of integrated population models with an extensive overview of practical applications using Bayesian methods by means of case studies. The book contains fully documented complete code for fitting all models in the free software R and JAGS. It also includes all required code for pre and post model fitting analysis. Integrated Population Models is an invaluable reference for researchers and practitioners involved in population analysis and for graduate level students in ecology, conservation biology, wildlife management and related fields. The text is ideal for self study and advanced graduate level courses. Offers practical and accessible ecological applications of IPMs integrated population models. Provides full documentation of analyzed code in the Bayesian framework. Written and structured for an easy approach to the subject especially for non statisticians.

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