

RESEARCH ARTICLE

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

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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.

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Data Availability Statement: All data files are available from the CRC 806 database (<https://cr0806db.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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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

Terrance J. Quinn, Richard B. Deriso



Quantitative Population Dynamics:

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

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 Bouguet, 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 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

Interaction theory in forest ecology and management Rolfe A. Leary, 2012-12-06 As I understand it a book Preface is where the author explains to the reader how the book in hand came about something of the personal reasons for having inflicted such extended duress on one's self to complete the manuscript and other items that are fit to say but do not fit in the text This book had its conceptual beginnings in the 1970's with my studies in scientific synthesis at the North Central Forest Experiment Station St Paul Minnesota Ours is clearly the age of analysis But I felt we must soon begin frameworks for synthesis or a synthesis would never be possible In short I hoped to develop interaction as an integrative principle in forestry As work progressed on the manuscript other subthemes developed First there was the vague feeling on my part that the forestry profession was losing ground in the contest to see who should manage the forests of the world This was happening not because foresters do not know how to manage forests in a reasonable manner but because the public seemed to be losing faith in the judgement of foresters as professional responsible wise land managers Several well known incidents of poor judgement in timber harvesting methods on national forests in the United States did little to help the forester's image

Marine Eutrophication and Population Dynamics Giuseppe Colombo, 1992

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

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Challenges in Managing Forest Genetic Resources for Livelihoods Barbara Vinceti, 2004 Issues concerning forest genetic diversity Cases studies from IPGRI s research project Lessons learned and applicability of reserch outcomes

Status of Marine Turtles in the Pacific Ocean Relevant to Incidental Take in the Hawaii-based Pelagic Longline Fishery, 1996

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

Selected Water Resources Abstracts, 1991 **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 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 Regenber 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 Interpretation Analysis by P Bombach T H bschmann I Fetzter S Kleinsteuber R Geyer H Harms and S M ller Multivariate Data Analysis Methods for the Interpretation of Microbial Flow Cytometric Data by H M Davey and C L Davey From Single Cells to Microbial Population Dynamics Modelling in Biotechnology Based on Measurements of Individual Cells by T Bley 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 **Final Supplemental Environmental Impact Statement on Management of Habitat for Late-successional and Old-growth Forest Related Species Within the Range of the Northern Spotted Owl** ,1994 *Northern Spotted Owl Management Plan in the National Forests (CA,OR,WA)* ,1992 **Computer Applications in the Earth Sciences** Daniel Merriam,2013-03-08 It has been evident for several years that a summary of where we came from where we are and where we are going with computer oriented research was not only desir able but necessary The application of computers by earth scientists is numerous and the methods have proved of val ue in problem solving as well as data processing Many methods unknown or unavailable just a few years ago now are used routinely An overall appraisal of the methods at this time is deemed more than appropriate Preface to the program was stated as Computer applications in the earth sciences is the subject of this International Symposium held on campus at The University of Kansas at Lawrence on 16 17 and 18 June 1969 The symposium the sixth in a series is sponsored by the Kansas Geological Survey International As sociation for Mathematical Geology and University Extension Papers by leading experts in their field stress the status of the art Speakers will discuss the use of computers in the earth sciences past present and future The meeting is planned for those not acquainted with the tremendous ad vancements made in quantitative methods in recent years and those who are interested in future pos sibilities

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