

RESEARCH ARTICLE

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

Isabell Schmidt¹*, Andreas Zimmermann

¹ Institute of Prehistoric Archaeology, CRC806, University of Cologne, Cologne, Germany

* isabell.schmidt@uni-koeln.de



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://cr080606.uni-koeln.de/>), including site data (<https://dx.doi.org/10.5880/SFR806.42>) and spm-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

R. M. Sibly, J. Hone, T. H. Clutton-Brock



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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

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 *Biological Control of Arthropod Forest Pests of the Western United States* T. S. Bellows, 1998 *Equadiff 82* H. W. Knobloch, K. Schmitt, 2007-01-05 **Northern Spotted Owl Management Plan in the National Forests (CA,OR,WA)**, 1992

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applicability of research outcomes **Selected Water Resources Abstracts** ,1991 **Federal Register** ,1999-11

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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 deomgraphic 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

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

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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