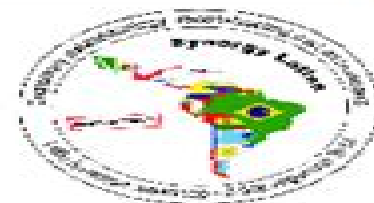


Quaternary paleoecology: Reconstructing past environments

Sonia L. Fontana¹ and Keith D. Bennett²

July: Argentina, 19-30 August 2013



Paleo-ecological studies provide data on changes in vegetation and other aspects of the environment through time. Numerous paleo-ecological time series from around the world have demonstrated that vegetation has changed, often dramatically, since the last glacial maximum (LGM). Changes are usually attributed to various external forcing factors, including climatic change, volcanic eruptions, fire, or human activity. Additionally, vegetation has changed as a result of its own internal dynamics (Bennett and Willis 1995), which include migration, competition and succession across different timescales. An example of postglacial changes in vegetation from southern most South America is illustrated in Figure 1; it specifies the different processes that have caused vegetation changes since the LGM (Fontana and Bennett 2012). Distinguishing these forcing factors of environmental change is challenging, especially when they operate and interact at different spatial and temporal scales (Fontana et al. 2012).

The purpose of this workshop was to bring together Latin American researchers working on Quaternary environmental change to discuss and build up a network, exchange perspectives and promote international interactions. Forty-two senior and early career scientists, and postgraduate students from Mexico, Venezuela, Colombia, Brazil, Bolivia, Chile and Argentina attended the meeting. A broad range of expertise was represented covering palynology, diatoms, ostracods, foraminifera, macroplankton, charophytes, phytolite, dendrochronology and archaeology.

The workshop provided: (1) an overview of the spatial and evolutionary responses of organisms to different Quaternary driving forces, with the aim of providing insight into general questions of species survival, spread and biodiversity; (2) an outline of the principles, methods and applications of selected paleo-ecological techniques; and (3) an overview of methods and software used for data analyses.

The event comprised lectures, practical classes, poster presentations, a field trip and the dissemination of a joint research project. The lectures addressed the paleoecology of the ocean, long Quaternary terrestrial records with multiple glacial isostatic sea level records, an overview of key sites for the last glacial-interglacial transition, palaeogenetics (including molecular clocks and ancient DNA), refugia, individualistic communities, plant migration, late Quaternary extinctions, and consideration of the role of Quaternary events on the

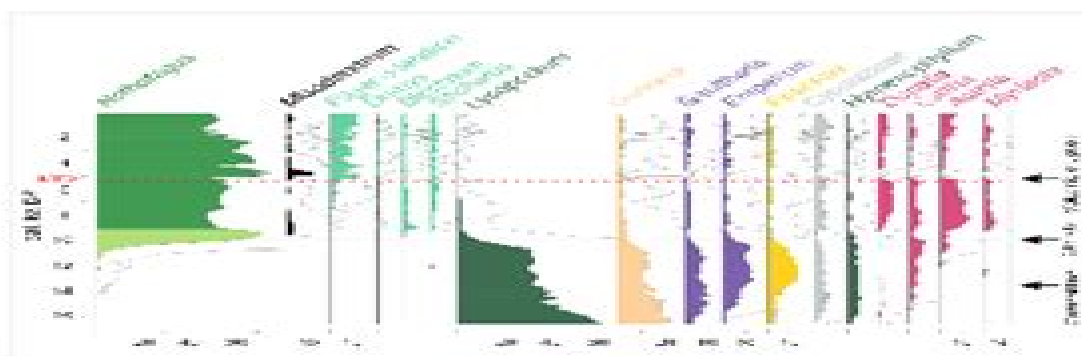


Figure 1: Pollen percentages (diagram) of collected lake from Lake Ballena, indicating different processes that have caused major vegetation changes since the LGM. MZG indicates the position of the higher layer from the Mt Barrow 2 section. Figure modified from Fariñas and Boreau 2012.

evolution of organisms. Important discussions centered around data collection issues: site selection and coring, subsampling techniques, routine sediment analyses, overview of pollen and macrofossil analyses and the value of multi-disciplinary research in paleoenvironmental reconstructions. The practical classes focused on data handling: chronology, the radiocarbon method and calibration, zonation, rates of change, ordination techniques and diversity estimators.

A field trip to Laguna Rincón was undertaken, following which participants engaged in the Latin American cooperative project for young scientists, Synergy Latina, and designed a multi-disciplinary research project with the main goal being to disentangle possible interactions between the environment and humans of the Atlixco of northern Argentina. Attention was paid to the influence that climatic changes had on the development of Andean civilizations and the consequent impact of human activities on the landscape. The initial phase of this project was conducted during the course (describing and sub-sampling the sediment core), while the different analyses will be carried out at a later stage at the participants' home institutions.

This first workshop was hosted by the University of Jujuy and co-ordinated by Julio Kallmeyer and Liliana Lupo. It was a successful start to the task of enhancing paleoecological investigations in Latin America and we look

forward to larger scale joint investigations, the ongoing exchange of knowledge leading to the development of new ideas and research questions, and continued cooperation. Further annual workshops are planned.

In addition to PAGES, participants received support from their home institutions, universities and research councils. The CHRONO Centre at Queen's University Belfast, financially supported and ran the radio-carbon dating of the sediment records for the Synergy Iuxina project.

The full program of activities, including poster abstracts can be viewed at: www.ami-goettingen.de/de/413042.html.

APPENDIX 2

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CONCLUSIONS

Corvino L. *Fraxinus*, *Quercus*, *Pinus*, *Thuja*, *Juniperus*, and *Abies*.

[illegible][illegible]

Quaternary Paleoecology

Valentí Rull



Quaternary Paleoecology:

Quaternary Paleoecology International Association for Quaternary Research, 1967 Articles by 29 authors from 10 countries ranging from the statistical to geochemical approach to Quaternary environmental history Covers Quaternary pollen analysis *Quaternary Paleoecology* International Association for Quaternary Research. Congress, 1982

Quaternary paleoecology Edward John Cushing, Herbert E. Wright, **Late Quaternary Paleoecology in the Bonneville Basin** David B. Madsen, 2000 The work reported here is part of an extended study of paleoenvironmental change and human adaptation in the deserts of western Utah This research involving both archaeological excavations and the recovery of strictly paleoecological materials is loosely grouped under the rubric of The Silver Island Expedition since much of the work has been conducted in the vicinity of the Silver Island Mountains along the western margin of the Great Salt Lake Desert **Methods in Paleoecology** Darin A. Croft, Denise F. Su, Scott W. Simpson, 2018-10-27 This volume focuses on the reconstruction of past ecosystems and provides a comprehensive review of current techniques and their application in exemplar studies The 18 chapters address a wide variety of topics that span vertebrate paleobiology and paleoecology body mass postcranial functional morphology evolutionary dental morphology microwear and mesowear ecomorphology mammal community structure analysis contextual paleoenvironmental studies paleosols and sedimentology ichnofossils pollen phytoliths plant macrofossils and special techniques bone microstructure biomineral isotopes inorganic isotopes 3 D morphometrics and ecometric modeling A final chapter discusses how to integrate results of these studies with taphonomic data in order to more accurately characterize an ancient ecosystem Current investigators advanced undergraduates and graduate students interested in the field of paleoecology will find this book immensely useful The length and structure of the volume also makes it suitable for teaching a college level course on reconstructing Cenozoic ecosystems *Library of Congress Subject Headings* Library of Congress, 2010 **Quaternary Palaeoecology** Harry John Betteley Birks, Hilary H. Birks, 1980 *Library of Congress Subject Headings* Library of Congress. Cataloging Policy and Support Office, 2006

Quaternary Ecology Hazel R. Delcourt, P. Delcourt, 1991-07-31 The increasing interest during recent years in vegetation history long term climatic changes and the development of biotic communities has resulted in a growth of the literature in this field and has provided an incentive for scientists to use palaeo ecology concepts to clarify contemporary ecological issues Quaternary ecology offers the perspective of time in using natural experiments of the past to evaluate the responses of population communities and ecosystems to climatic and environmental changes on a time scale extending back over the past two million years of the quaternary period Examples from the palaeo ecological literature demonstrate how quaternary ecology interfaces with other branches of ecology including plant demography ecological genetics limnology and landscape ecology **Encyclopedia of Ecology** Brian D. Fath, 2014-11-03 The groundbreaking Encyclopedia of Ecology provides an authoritative and comprehensive coverage of the complete field of ecology from general to applied It includes over 500

detailed entries structured to provide the user with complete coverage of the core knowledge accessed as intuitively as possible and heavily cross referenced Written by an international team of leading experts this revolutionary encyclopedia will serve as a one stop shop to concise stand alone articles to be used as a point of entry for undergraduate students or as a tool for active researchers looking for the latest information in the field Entries cover a range of topics including Behavioral Ecology Ecological Processes Ecological Modeling Ecological Engineering Ecological Indicators Ecological Informatics Ecosystems Ecotoxicology Evolutionary Ecology General Ecology Global Ecology Human Ecology System Ecology The first reference work to cover all aspects of ecology from basic to applied Over 500 concise stand alone articles are written by prominent leaders in the field Article text is supported by full color photos drawings tables and other visual material Fully indexed and cross referenced with detailed references for further study Writing level is suited to both the expert and non expert Available electronically on ScienceDirect shortly upon publication

Paleoecological Research on Easter Island Valenti Rull, 2020-08-07 Paleocological Research on Easter Island Insights on Settlement Climate Changes Deforestation and Cultural Shifts examines the area s climatic and ecological history a topic not usually addressed in other literature The book provides a thorough and synthetic account of all paleoecological works developed to date including the latest discoveries Finally it attempts to match paleoecological evidence with the results of other disciplines creating a multidisciplinary framework This approach to the field is ideal for researchers university professors and graduate students in a varied range of disciplines and subdisciplines including ecology paleoecology paleoclimatology biogeography sedimentology and paleontology Users will find synthesized information on Easter Island from the last millennia that will help pave the way towards an integrated interdisciplinary vision of the island s environmental ecological cultural system as a complex functional unit Human and environmental deterministic views are avoided and the Easter Island enigmas are analyzed under a holistic perspective of continuous feedbacks and synergies among the different components of the system Provides the first synthesis of the available paleoecological knowledge on Easter Island Furnishes clues on how to integrate paleoecological information with evidence from other disciplines Addresses the complexity of the environmental ecological cultural system by analyzing the interactions feedbacks and synergies among its components

American Beginnings Frederick Hadleigh West, Constance F. West, 1996-12 During the last Ice Age a thousand mile wide land bridge connected Siberia and Alaska creating the region known as Beringia Over twelve thousand years ago a procession of large mammals and the humans who hunted them crossed this bridge to America Much of the Russian evidence for this migration has until now remained largely inaccessible to American scholars American Beginnings brings together for the first time in one volume the most up to date archaeological and palaeoecological evidence on Beringia from both Russia and America An invaluable resource It will no doubt remain the key reference book for Beringia for many years to come Steven Mithen Journal of Human Evolution Extraordinary The fifty six contributors represent the most prominent American and Russian researchers in the region

Choice Publication of this well illustrated compendium is a great service to early American and especially Siberian Upper Paleolithic archaeology Nicholas Saunders New Scientist This is a great book perhaps the greatest contribution to the archaeology of Beringia that has yet been published This is the kind of book to which archaeology should aspire Herbert D G Maschner Antiquity

Paleontology in Ecology and Conservation Julien Louys, 2012-04-25 The fossil record contains unique long term insights into how ecosystems form and function which cannot be determined simply by examining modern systems It also provides a record of endangered species through time which allow us to make conservation decisions based on thousands to millions of years of information The aim of this book is to demonstrate how palaeontological data has been or could be incorporated into ecological or conservation scientific studies This book will be written by palaeontologists for modern ecologists and conservation scientists Manuscripts will fall into one or a combination of four broad categories case studies review articles practical considerations and future directions This book will serve as both a how to guide and provide the current state of knowledge for this type of research It will highlight the unique and critical insights that can be gained by the inclusion of palaeontological data into modern ecological or conservation studies

Urumaco and Venezuelan Paleontology Marcelo R. SÁnchez-Villagra, Orangel A. Aguilera, Alfredo A. Carlini, 2010-07-16 Urumaco and Venezuelan Paleontology offers a synthesis of the paleontological record of Venezuela including new discoveries on stratigraphy paleobotany fossil invertebrates and vertebrates Besides providing a critical summary of the record of decapods fishes crocodiles turtles rodents armadillos and ungulates several chapters introduce new information on the distribution and paleobiology of groups not previously studied in this part of the world Given its position in the northern neotropics close to the Panamanian land bridge Venezuela is a key location for understanding faunal exchanges between the Americas in the recent geological past The book reviews the recent paleobotanical and vertebrate fossil record of the region provides an understanding of Pleistocene climatic change and biogeography for the last few thousand years and integrates new information with summaries of Spanish language works on Venezuelan geology and paleontology

Prehistoric Native Americans and Ecological Change Paul A. Delcourt, Hazel R. Delcourt, 2004-07-29 This book shows that Holocene human ecosystems are complex adaptive systems in which humans interacted with their environment in a nested series of spatial and temporal scales Using panarchy theory it integrates paleoecological and archaeological research from the Eastern Woodlands of North America providing a paradigm to help resolve long standing disagreements between ecologists and archaeologists about the importance of prehistoric Native Americans as agents for ecological change The authors present the concept of a panarchy of complex adaptive cycles as applied to the development of increasingly complex human ecosystems through time They explore examples of ecological interactions at the level of gene population community landscape and regional hierarchical scales emphasizing the ecological pattern and process involving the development of human ecosystems Finally they offer a perspective on the implications of the legacy of Native Americans as agents of change for conservation

and ecological restoration efforts today **Climate Change** Frank Chambers, Michael Ogle, 2002 This collection of papers is introduced by an overview of research into climate change Each volume contains an introductory commentary presenting the major strengths and achievements of the papers their weaknesses and limitations and points to follow up work **Ice Age Southern Andes** C.J. Heusser, 2003-11-12 The Southern Andes stretching from the subtropics to the subantarctic are ideally located for palaeoenvironmental research Over the broad and continuous latitudinal extent of the cordillera 24 vegetation is adjusted to climatic gradients and atmospheric circulation patterns Opposed to the prevailing Southern Westerlies the Southern Andes are positioned to receive the brunt of the winds while biota are set to record the shifting of incoming storm systems over time Sequential latitudinally placed sedimentary deposits containing microfossils and macroremains as archives of past vegetation and climate make possible the detection of equatorward and poleward displacement of plant communities and as a consequence changes in climatic controls No terrestrial setting in the Southern Hemisphere is so unique for palaeoenvironmental reconstruction during and since the last ice age Twenty radiocarbon dated fossil pollen and spore records chosen to place emphasis on the last ice age include high resolution submillennial data sets that also cover the Holocene thus providing contrast between present interglacial and past glacial ages From a refined data base the records constitute the foundation for interpreting factors responsible for vegetation change over 50 000 14C years glacial interglacial migration and refugial patterns for a diversity of taxa and the extent of intrahemispheric and polar hemispheric synchronicity versus asynchronicity *Publications of the Geological Survey* Geological Survey (U.S.), 1948 The Geological Record of Ecological Dynamics National Research Council, Division on Earth and Life Studies, Board on Life Sciences, Board on Earth Sciences and Resources, Committee on the Geologic Record of Biosphere Dynamics, 2005-02-13 In order to answer important questions about ecosystems and biodiversity scientists can look to the past geological record which includes fossils sediment and ice cores and tree rings Because of recent advances in earth scientists ability to analyze biological and environmental information from geological data the National Science Foundation and the U S Geological Survey asked a National Research Council NRC committee to assess the scientific opportunities provided by the geologic record and recommend how scientists can take advantage of these opportunities for the nation s benefit The committee identified three initiatives for future research to be developed over the next decade 1 use the geological record as a natural laboratory to explore changes in living things under a range of past conditions 2 use the record to better predict the response of biological systems to climate change and 3 use geologic information to evaluate the effects of human and non human factors on ecosystems The committee also offered suggestions for improving the field through better training improved databases and additional funding

Interior Western United States Joel L. Pederson, Carol Merritt Dehler, 2005-01-01

Quaternary Paleoecology: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have enthralled audiences this year. Quaternary Paleoecology : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Quaternary Paleoecology : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Quaternary Paleoecology : Delia Owens' "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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