



Paleogeography And Loeb Pleistocene Climatic And Environmental Reconstructions

Geological Society of London



Paleogeography And Loess Pleistocene Climatic And Environmental Reconstructions:

Paleogeography and Loess International Union for Quaternary Research. Congress, 1987 **Paleogeography and Loess** Márton Pécsi, Andrey Velichko, 1987 *Rivista Italiana Di Paleontologia E Stratigrafia*, 2003 *Petroleum Abstracts*, 1987 **New Zealand Journal of Geology and Geophysics**, 2004 *Petroleum Abstracts. Literature and Patents*, 1983

Bibliography and index of micropaleontology, 1989 *Pleistocene Environmental Reconstruction: Palos Verdes Hills, California* David Wilson Graham, 1964 *Paleo-environmental Reconstruction of the Late Pleistocene Lake Indian-Kentuck; Brooksbury, IN.* M. H. Otto, 2005 Early-Middle Pleistocene Transitions Geological Society of London, 2005 The Early Middle Pleistocene transition around 1.2 to 0.5 Ma marks a profound shift in Earth's climate state. Low amplitude 41 ka climate cycles dominating the earlier part of the Pleistocene gave way progressively to a 100 ka rhythm of increased amplitude that characterizes our present glacial interglacial world. This volume assesses the biotic and physical response to this transition both on land and in the oceans; indeed it examines the very nature of Quaternary climate change. Milankovitch theory, palaeoceanography using isotopes and microfossils, marine organic geochemistry, tephrochronology, the record of loess and soil deposition, terrestrial vegetational change and the migration and evolution of hominins as well as other large and small mammals are all considered. These themes combine to explore the very origins of our present biota.

Atlas of Paleoclimates and Paleoenvironments of the Northern Hemisphere Burkhard Frenzel, Márton Pécsi, Andrei Alekseevich Velichko, 1992-01-01 Middle to Late Pleistocene Paleoenvironmental Reconstructions from Lake El'gygytyn, Arctic Russia Mary Helen Habicht, 2019 Climate change is a major issue challenging the world today. Our global society faces rising temperatures, variable weather patterns, and rising sea level among other associated issues. Our action or inaction to address current changes will have serious ramifications for life on our planet in the coming centuries and millennia. In order to provide context for these present and future changes, we can utilize the paleo record to understand the natural variability of Earth's climate system. One region of the world is changing more rapidly than the global average. Over recent decades, the Arctic has experienced warmer temperatures, reduced sea ice, melting permafrost, and shifts in the amount and seasonality of precipitation. Unfortunately, paleoclimate and environmental records from the terrestrial Arctic, particularly beyond the last 120 ka, are few. This is due to the repeated extensive glaciation of the northern hemisphere high latitudes during the ice ages of the Quaternary. One area of the Arctic, in the Anadyr mountains of Chukotka, has remained unglaciated through the Pleistocene. Lake El'gygytyn, a meteorite impact crater lake formed 3.6 million years ago, lies in this area and so provides a continuous sedimentary sequence from the Mid-Pliocene to present. This dissertation includes four studies of Lake El'gygytyn sediments over the last 800 thousand years. A variety of biogeochemical and stable isotope proxies are used to reconstruct climate and environmental variability throughout the study interval. These studies provide novel information about the natural variations of terrestrial Arctic climate on glacial interglacial timescales. Chapter 2 of this dissertation

involves the analysis of bacterial membrane lipids called branched glycerol dialkyl glycerol tetraethers brGDGTs and plant leaf wax n alkanes to provide records of relative temperature change and terrestrial vegetation turnover in response to aridity during the glacial interglacial cycles of the Mid Pleistocene Our data suggests that regional temperature is strongly influenced by local summer insolation while aridity changes derive from sea level driven changes in continentality Comparison of our data with previously published paleoclimate records from Lake El gygytgyn highlights the difference in proxy response to climatic variables and the utility of a multi proxy approach Additionally we use our extensive records to identify the presence of a global climatic transition the Mid Brunhes Event MBE for the first time in the terrestrial Arctic In Chapter 3 we analyze algal lipid biomarkers from the same samples used in Chapter 2 We also incorporate stable carbon and nitrogen isotopes to determine changes in primary production and organic matter preservation in Lake El gygytgyn across multiple glacial interglacial cycles Chapter 4 spans the Holocene and Late Pleistocene 280 ka to present We use the hydrogen isotopic composition of long chain plant leaf wax n alkanes to reconstruct temperature and hydroclimate changes We find that MIS 7 was a stronger interglacial period than MIS 5e in the terrestrial Arctic and attribute the variability in hydrogen isotopes predominantly to temperature and moisture source changes In Chapter 5 we compare the hydrogen isotope composition of n alkanes measured in Chapter 4 to the isotopic composition of n alkanoic acids in the same samples previously analyzed by Wilkie 2012 This is a novel approach for paleoclimate records Our results indicate that the type of compound selected for analysis can have a significant impact on the paleoclimatic interpretations of a study Finally in Chapter 6 a summary and avenues for future research are provided Overall this dissertation is a testament to the utility of biomarkers and stable isotopes in Arctic lake sediments Each study provides unique information about the terrestrial Arctic climate during the Quaternary and contributes to our understanding of climatic variability and the dynamics of this sensitive region

The Pleistocene Jeannine Gareau, 2018 In this collection the authors begin by discussing the Quaternary the most recent geological period of time in Earth s history spanning the last 2 588 million years The Quaternary System is subdivided into the Pleistocene and the Holocene Series with the Pleistocene spanning most of the Quaternary while the Holocene covers the last 11 700 calendar year In order to understand contemporary stratigraphic terms and subdivisions of the Quaternary the historical background becomes necessary Besides the traditional chronostratigraphical and geochronological division the Quaternary was divided also climatostratigraphically based on the recorded climatic changes The following paper presents the results of geomorphological and geochronological studies within the highest southeastern part of Russian Altai Geomorphological evidence of at least of two Pleistocene glacial epochs are mapped within the Chagan Uzun river basin and an analysis of all available absolute dates for the reference section is presented The authors present a survey wherein information about over 200 species of small mammals is given concerning morphology taxonomy and distribution across more than 20 localities covering the last 4 5 million years A detailed biostratigraphic scheme has been developed which is

compared with independent sources of chronology In this context the paleoecological information provided by the individual regional biostratigraphic assemblages is analyzed and the paleoecological reconstructions are correlated with global paleoclimatic evidence After this this book retraces fossil discoveries and significant evidences of big cats in Europe in order to describe their rise to top predators as well as their recent fall resulting from climatic change and the increase in human population At the present time the group includes five species *Panthera leo* *Panthera pardus* *Panthera onca* *Panthera tigris* and *Panthera uncia* The final chapter includes a brief review of the late Pleistocene mammals from Mexico pointing out recent findings concerning their paleobiology considering the recently documented record from areas of central and southern Mexico This research allows for an increase in the number of fossil localities determination of the taxonomic status of some artiodactyls and characterization of the dietary traits of herbivore species by means of stable isotopes and dental wear patterns analyses

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Arctic and North Atlantic Paleo-environmental Reconstructions from

Lake Sediments Gregory A. de Wet, 2017 ABSTRACT ARCTIC AND NORTH ATLANTIC PALEO ENVIRONMENTAL RECONSTRUCTIONS FROM LAKE SEDIMENTS MAY 2017 GREGORY A DE WET B Sc BATES COLLEGE M Sc UNIVERSITY OF MASSACHUSETTS AMHERST Ph D UNIVERSITY OF MASSACHUSETTS AMHERST Directed by Drs Raymond S Bradley and Isla S Casta eda There are few fields in the discipline of Earth Science that hold more relevancy in 2017 than studies of earth s climate Called the perfect problem considering its complexity and magnitude climate change will continue to be one of the greatest challenges humanity will face in the 21st century And while numerical models provide valuable information on conditions in the future the results from these simulations must be contextualized by the past Climate reconstructions from paleo environmental archives even from periods colder or different from what we are experiencing today provide that context Every piece of information gleaned from these studies informs our collective knowledge of the climate system In some cases environmental reconstructions may include proxies for anthropogenic as well as climatological information directly addressing one of the most important questions in climate science how does changing climate affect humans The following chapters of this dissertation are exercises in trying to understand climate change in one of the most climatically sensitive regions on earth the high northern latitudes While my doctoral studies cover a wide range of timescales it is broadly unified by the focus on the Arctic In some cases my research spans multiple glacial interglacial cycles in others the concentration is on the past few thousand years In all cases however the goal is to utilize lacustrine sedimentary archives to inform our knowledge of climatic change in this important region One of the most rewarding aspects of this Ph D has been the creativity I have been afforded in working towards that goal Chapter One of this dissertation involves the analysis of organic molecules specifically bacterial membrane lipids called branched glycerol dialkyl glycerol tetraethers brGDGTs to sediments from Lake El gygytgyn These biomarkers allow for a quantitative reconstruction of temperature from multiple interglacial periods over a million years ago Our data suggests that super interglacial Marine Isotope Stage 31 may have in fact lasted much longer than previously thought in the Arctic with implications for Antarctic ice sheet extent and CO₂ concentrations highly relevant to our future Though the extraction and analysis of these biomarkers is expensive and time consuming the data is highly valuable and informative Conversely in some cases more quick and dirty techniques are sufficient to reconstruct important processes or factors back through time e g the presence of a glacier within a lake catchment at relatively low cost and therefore are highly useful The chapters dealing with Lake Gj avatnet in Svalbard Chapter Two or the application of Fourier Transform Infrared FTIR spectroscopy to lake sediments Chapter Five exhibit how such techniques can also be highly informative In Chapter Two using a combination of core scanning data and relatively simple destructive analyses %loss on ignition bulk carbon isotopes we reconstructed past fluctuations in glacier extent over the Holocene as well as identified intervals that may have been related to freshwater pulses in Fram Strait Chapter Five is focused mainly on expanding and confirming the use of FTIR spectroscopy to Arctic lake sediments to reconstruct biogenic silica and organic matter

concentrations through time Though potentially a less direct climate proxy than paleotemperature from brGDGTs this new technique allows for more rapid analyses using less sediment than previous methods a valuable advance Chapters Three and Four are in many ways the confluence of these earlier stages of my Ph D where we apply a wide range of proxies to answer questions related to climate and human population dynamics The use of biomarkers is expanded in these projects where a broad suite of organic molecules are used to reconstruct both climate and other paleo environmental conditions including vegetation changes variations in pH and potentially anthropogenic influences Coupled with some of the more basic techniques described above we characterize an environmental disturbance in the Faroe Islands 2200 years ago that may be evidence for the first appearance of humans in the archipelago Chapter Three In Chapter Four we explore the application of brGDGTs among other proxies to reconstruct temperature change in southwest Greenland during the period of Norse settlement and subsequent abandonment This work is part of an ongoing investigation into the efficacy and calibration of this promising proxy in a locale where climate change likely had a dramatic impact on the fragile communities living there In summary I have not attempted to unify these chapters into a single climatological context though some of my work such as in the Faroes and Greenland is highly related Instead I present them as they are individual projects that each have their own goals and merits within the broad framework of paleoclimatology As I mentioned above one of my favorite things about this field is the creativity we are afforded in our attempts to answer questions about the past This Ph D has been an exercise in that creativity focused in the high northern latitudes and centered around the archive of lake sediments

Paleoglacier Reconstruction and Estimates of Late Pleistocene Climate in the Southern Sangre de Cristo Mountains, New Mexico Robert E. Jacobsen, 2010

Reconstruction of Late Pleistocene Paleoclimatic Characteristics in the Great Basin and Adjacent Areas Kenneth A. Bevis, 1995 A sequence of glaciation based on relative dating parameters was established in each of nine mountain ranges located along a northwest to southeast transect through the northern Great Basin Each sequence consists of two or three drift units Degree of weathering suggests that the younger drift unit in a two fold sequence and the intermediate drift unit in a three fold sequence represents deposition during the late Pleistocene The late Pleistocene equilibrium line altitude ELA in each range was determined by reconstructing the maximum ice extent associated with these drift units and using the accumulation area ratio technique Paleo ELAs increase from about 2100 m in northeastern Oregon to approximately 3200 m in central Utah Paleoclimatic conditions along the study transect were estimated by comparing modern climatic conditions at the reconstructed late Pleistocene ELAs with climatic conditions occurring at the ELAs of modern mid latitude glaciers Assuming no change in winter accumulation or in the seasonal distribution of precipitation from the present a mean summer temperature depression ranging from about 9 0 C at the northern end of the transect to about 4 0 C at the southern end would have been necessary to sustain glaciers in these ranges during the late Pleistocene To simulate possible changes in late Pleistocene precipitation patterns a change in winter accumulation between 0 5 and 2 0

times the modern value resulted in a respective increase or decrease in temperature depression by approximately 2.0 °C. These results suggest that increases in precipitation during the late Pleistocene alone could not have sustained glaciers in the mountain ranges of the study transect except possibly at its southern end in the central Great Basin. An increase in precipitation in this area during the late Pleistocene agrees with the interpretation of other paleoclimatic records and paleoclimatic model simulations for the Great Basin.

Holocene Climate and Environmental Change in the Great Basin of the Western United States Scott Alan Reinemann, 2013 Abstract In this dissertation I have completed a research project that focused on reconstructing past climate and environmental conditions in the Great Basin of the western United States. This research project incorporates four discrete but interrelated studies:

1. The geochemistry of lake sediments was used to identify anthropogenic factors influencing aquatic ecosystems of subalpine lakes in the western United States during the past century. Sediment cores were recovered from six high elevation lakes in the central Great Basin of the United States. Mercury (Hg) flux varied among lakes but all exhibited increasing fluxes during the mid 20th century and declining fluxes during the late 20th century. Peak Spheroidal Carbonaceous Particles (SCP) flux for all lakes occurred at approximately 1970, after which SCP flux was greatly reduced. Atmospheric deposition is the primary source of Hg and anthropogenically produced SCPs to these pristine high elevation lakes during the late 20th century.
2. Chironomids are used to develop centennial length temperature reconstructions for six subalpine and alpine lakes in the central Great Basin of the United States. Chironomid inferred temperature estimates indicate that four of the six lakes were characterized by above average air temperatures during the post AD 1980 interval and below average temperatures during the early 20th century. This study adds to the growing body of evidence that subalpine and alpine lakes in the western United States have been and are increasingly being affected by anthropogenic climate change in the early 21st century.
3. A sediment core representing the past two millennia was recovered from Stella Lake in the Snake Range of the central Great Basin in Nevada. The core was analyzed for subfossil chironomids and sediment organic content. The chironomid based mean July air temperature (MJAT) reconstruction suggests that the Medieval Climate Anomaly (MCA) was characterized by MJAT elevated 1.0 °C above the subsequent Little Ice Age (LIA) but likely not as warm as recent conditions. The Stella Lake record provides evidence that elevated summer temperature contributed to the increased aridity that characterized the western United States during the MCA.
4. Lake sediment cores spanning roughly the last 7,000 years were recovered from four small subalpine and alpine lakes located in central Great Basin of the United States. Reconstructions of MJAT were developed for each of the study sites using a chironomid based inference model for MJAT: two component Weighted Averaging Partial Least Squares (WA-PLS). The elevated temperature that characterizes the mid Holocene at Stella Lake is surpassed only during the Medieval Climate Anomaly and in the post AD 1800 interval. The reconstructions for the sites located in the northern portion of the study transect are characterized by greater variability, likely reflecting the influence of both radiative forcing and catchment

specific conditions

This book delves into Paleogeography And Loeb Pleistocene Climatic And Environmental Reconstructions. Paleogeography And Loeb Pleistocene Climatic And Environmental Reconstructions is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Paleogeography And Loeb Pleistocene Climatic And Environmental Reconstructions, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Paleogeography And Loeb Pleistocene Climatic And Environmental Reconstructions
 - Chapter 2: Essential Elements of Paleogeography And Loeb Pleistocene Climatic And Environmental Reconstructions
 - Chapter 3: Paleogeography And Loeb Pleistocene Climatic And Environmental Reconstructions in Everyday Life
 - Chapter 4: Paleogeography And Loeb Pleistocene Climatic And Environmental Reconstructions in Specific Contexts
 - Chapter 5: Conclusion
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 3. In chapter 2, the author will delve into the foundational concepts of Paleogeography And Loeb Pleistocene Climatic And Environmental Reconstructions. This chapter will elucidate the essential principles that need to be understood to grasp Paleogeography And Loeb Pleistocene Climatic And Environmental Reconstructions in its entirety.
 4. In chapter 3, this book will examine the practical applications of Paleogeography And Loeb Pleistocene Climatic And Environmental Reconstructions in daily life. The third chapter will showcase real-world examples of how Paleogeography And Loeb Pleistocene Climatic And Environmental Reconstructions can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Paleogeography And Loeb Pleistocene Climatic And Environmental Reconstructions in specific contexts. The fourth chapter will explore how Paleogeography And Loeb Pleistocene Climatic And Environmental Reconstructions is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Paleogeography And Loeb Pleistocene Climatic And Environmental Reconstructions. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Paleogeography And Loeb Pleistocene Climatic And Environmental Reconstructions.

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the difference in the mass is due to the difference in their number of neutrons with the same number of electrons and protons

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