

Terrestrial Paleoeecology of the Cretaceous (Early Aptian) Cerro Negro Formation, South Shetlands Islands, Antarctica: A Record of Polar Vegetation in a Volcanic Arc Environment

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Nothing is known about the community-scale plant ecology of early Cretaceous volcanic environments in the southern high latitudes. The paleoecology of the early Aptian (119–120 Ma) volcanoclastic Cerro Negro Formation of South Shetland Islands, Antarctica, has been investigated to improve understanding of these enigmatic ecosystems. This unit was deposited in an intra-arc setting at the edge of the paleo-polar circle (66°S). Taphonomic analysis of megafossils in seven volcanic facies indicates the existence of a spatially complex vegetation mosaic co-dominated by conifers, bennettites, and ferns. A lower stratigraphic unit was deposited by high-magnitude, low-frequency silicic eruptions, partially reworked by fluvial processes. Following ash falls, shrubby communities of ferns and bennettites dominated for short periods in low-altitude paleovalleys before being replaced by araucarian-podocarp-fern conifer forests. Forests of podocarp conifers and bennettites covered adjacent mid-altitude slopes of active volcanic cones. These were destroyed periodically by hot pyroclastic flows, and their charred remains washed down into paleovalley fluvial systems. Analysis of architectural and phenological data from both major forest communities indicates the predominance of evergreen trees with a canopy height of c. 20–30 m. Growth-ring analysis indicates that, despite occasional catastrophic eruptions, growing conditions were mostly favorable and uniform, although in riparian paleovalley niches flooding locally produced more stressful growing conditions. An upper stratigraphic unit was deposited by low-magnitude, high-frequency basaltic eruptions. Shrubby fern and bennettite-dominated vegetation, together with local conifer stands, colonized this environment. Growth of more widespread arborescent vegetation in the upper unit was inhibited by high-frequency volcanic disturbances. Bennettites are much more abundant and diverse in the Cerro Negro Formation compared with coeval, non-volcanic sites in the southern high latitudes, indicating that this group may have favored volcanic environments.

INTRODUCTION

Abundant and widespread fossil plant data indicate that temperate forests grew in high-latitudes (>66°) during the Cretaceous (Spicer et al., 1993). In the Northern Hemisphere, fossil floras occur in northern Alaska (Spicer and Parrish, 1986), Arctic Canada (Csank, 2001), Greenland (Boyd, 1993), and northern Russia (Herman and Spicer, 1996) at paleolatitudes as high as 82°N. In the Southern Hemisphere, sites are known in southern Australia (Dettman et al., 1992), southern South America (Archangelsky, 1963), New Zealand (Parrish et al., 1998), and Antarctica (Falcon-Lang and Cantrill, 2001a) at paleolatitudes of up to 75°S. These polar forests flourished under an unusual combination of environmental conditions: a polar light regime characterized by dark winters and light summers (Read and Francis, 1992) and an elevated atmospheric CO₂ concentration on the order of 1000–2000 ppm (Bernner, 1994; Retallack, 2001).

Despite the abundance of fossil material available for study, much of the latest research on Cretaceous polar forests has focused on the use of sophisticated plant physiology experiments and computer climate-vegetation models to analyze aspects of the ecology and productivity of the polar biome (e.g., Upchurch et al., 1998; Beerling et al., 1999; Beerling, 2000; Beerling and Osborne, 2002). While such experimental results are valuable for drawing continental-scale generalizations, field studies are essential to elucidate community-scale dynamics (Falcon-Lang and Cantrill, 2001a).

Remarkably little is known about the community-scale ecology of Cretaceous polar forests (Falcon-Lang et al., 2001), and this dearth of information is particularly apparent for early Cretaceous times (Cantrill, 2000). Furthermore, those studies that have been undertaken previously have exclusively focused on fluvio-deltaic environments (Spicer and Parrish, 1986; Dettman et al., 1992; Boyd, 1993; Parrish et al., 1998; Falcon-Lang et al., 2001) with no attention being given to the paleoecology of widespread volcanic settings.

To fill this significant gap in our knowledge, the paleoecology of an early Cretaceous high-latitude (66°S) fossil forest site from a volcanic intra-arc setting is described from the Cerro Negro Formation of the Byers Group, South Shetland Islands, Antarctica (Fig. 1; Smith et al., 1994; Hathway, 1997). The structure, composition, and phenology of plant communities and their growing environment are analyzed herein. These data are compared

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Paleoecology of Easter Island: Natural and Anthropogenic Drivers of Ecological Change Valentí Rull, Santiago Giralt, 2018-09-04 After more than three decades of paleoecological research the potential role of climatic and anthropogenic drivers on Easter Island's ecological and cultural change is still under discussion This eBook aims to provide a synthetic view of the topic using evidence from different research fields such as paleoecology archaeology history and molecular phylogenetics A holistic approach is provided to combine the results of these research fields into a comprehensive framework able to account for most of the available multidisciplinary evidence This eBook is dedicated to the memory of John R Flenley the pioneer of paleoecological study of Easter Island who passed away on June 22 2018

Early Hominin Paleoecology Matt Sponheimer, Julia A. Lee-Thorp, Kaye E. Reed, Peter Ungar, 2013-05-15 An introduction to the multidisciplinary field of hominin paleoecology for advanced undergraduate students and beginning graduate students Early Hominin Paleoecology offers an up to date review of the relevant literature exploring new research and synthesizing old and new ideas Recent advances in the field and the laboratory are not only improving our understanding of human evolution but are also transforming it Given the increasing specialization of the individual fields of study in hominin paleontology communicating research results and data is difficult especially to a broad audience of graduate students advanced undergraduates and the interested public Early Hominin Paleoecology provides a good working knowledge of the subject while also presenting a solid grounding in the sundry ways this knowledge has been constructed The book is divided into three sections climate and environment with a particular focus on the latter adaptation and behavior and modern analogs and models and features contributors from various fields of study including archaeology primatology paleoclimatology sedimentology and geochemistry Early Hominin Paleoecology is an accessible introduction into this fascinating and ever evolving field and will be essential to any student interested in pursuing research in human paleoecology Additional Contributors David Braun Beth Christensen David J Daegling Crag Feibel Fred E Grine Clifford Jolly Naomi E Levin Mark A Maslin John Mitani Jay Quade Amy L Rector Jeanne Sept Lillian M Spencer Mark Teaford Carol V Ward Katy E Wilson

Orbital Forcing and Cyclic Sequences P. L. DeBoer, D. G. Smith, 2009-04-08 Classically orbital cycles have been recognized in pelagic and lacustrine sequences characterized by quiet sedimentation not disturbed by tectonics However there is now increasing recognition that orbital cycles do influence climate and oceanography in general terms There is also increasing acceptance of the possibility at least that the effect should be felt over large parts of the Earth's surface and that orbital cycles may well leave signs in other sedimentary environments that are commonly considered to be dominated by tectonics and eustasy Containing thirty one papers from a symposium held at the International Sedimentological Congress in Nottingham in 1990 this volume spans a range of topics from the astronomical theory behind orbital forcing to field studies dealing with a broad range of sedimentary environments and to modelling and simulation State of the art research papers International expert authorship The latest research in the

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