Factors Influencing Radiocarbon Date Patterns in Southern Wyoming

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INTRODUCTION

Building chronologies is a challenging but fundamentally important task in archaeology. The use of radiocarbon dates as a tool for archaeological research is limited due to the well-known problem of radiocarbon reservoir effects and short-term variations in radiocarbon reservoir levels. Radiocarbon date patterns are often characterized by variations in sample distributions, which can be attributed to a variety of factors, such as site-specific regional patterns, seasonal trends, and changes in the radiocarbon reservoir level over time. In this study, a series of radiocarbon dates from sites within the Wyoming vicinity are plotted on a graph to illustrate the distribution patterns observed.

Map of project area showing sites of the Wyoming plateau of the eastern US. Information on radiocarbon dates, cultural material, and vegetation data were selected from these sites.

Map showing the locations of the Wyoming plateau of the eastern US. Information on radiocarbon dates, cultural material, and vegetation data were selected from these sites.

Depth Distribution of Radiocarbon Dates by Site Period in the Tongue River Basin.

This figure suggests that testing patterns may under- represent deposits of Wyoming plateaus. It shows that the actual distributions are not normal (see fig. 1a).

As depicted here, the Tongue River basin does not show a normal distribution of radiocarbon dates. This suggests that the distribution of dates may be influenced by factors such as site-specific regional patterns or seasonal trends.

Histogram of Radiocarbon Dates by Site Period in the Tongue River Basin.

The histogram shows the frequency distribution of radiocarbon dates by site period in the Tongue River basin. The distribution is skewed, suggesting that the actual distribution of dates may be influenced by factors such as site-specific regional patterns or seasonal trends.

Final Thoughts

What behavior factors might affect rates of site occupation? Theoretical and landscape patterns affect site创建 rates in many predictable ways. A theoretically informed work on this topic is needed. For example, why do we see that housing and environment type condition mobility and residence. Which of those patterns might be more complicated after millennia?

ACNOWLEDGMENTS

Our thanks to the many volunteers and brainstorming sessions that led to this book. We highly recommend this book for anyone interested in the topic. This book is a comprehensive guide to the radiocarbon dating process, providing detailed information on the various techniques used in dating archaeological materials.

HISTORICAL USES

Radiocarbon dating has many uses, including the determination of the age of archaeological materials, the dating of geological samples, and the study of historical events. In archaeological research, radiocarbon dating is used to establish the chronology of sites, to determine the age of artifacts, and to correlate different sites based on similarities in their radiocarbon dates.

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