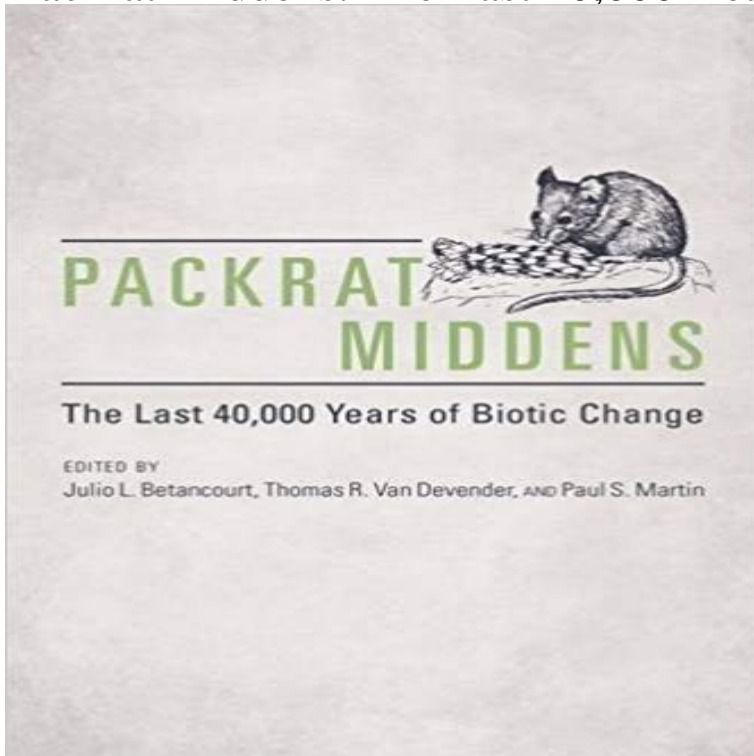


Packrat Middens: The Last 40,000 Years of Biotic Change



Over the past thirty years, late Quaternary environments in the arid interior of western North America have been revealed by a unique source of fossils: well-preserved fragments of plants and animals accumulated locally by packrats and quite often encased, amberlike, in large masses of crystallized urine. These packrat middens are ubiquitous in caves and rock crevices throughout the arid West, where they can lie preserved for tens of thousands of years. More than a thousand of these deposits have been dated and analyzed, and middens have supplanted pollen records as a touchstone for studying vegetation dynamics and climatic change in radiocarbon time (the last 40,000 years). Now, similar deposits made by other mammals like hyraxes are being reported from other parts of the world. This book brings together the findings and views of many of the researchers investigating fossil middens in the United States, Mexico, Africa, the Middle East, and Australia. The contributions serve to open a forum for methodological concerns, update the fossil record of various geographic regions, introduce new applications, and display the vast potential for fossil midden analysis in arid regions worldwide. The findings presented here will serve to foster regional research and to promote general studies devoted to global climate change. Included in the text are more than two hundred charts, photographs, and maps.

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Packrat middens : the last 40,000 years of biotic change / edited by Julio L. Betancourt, Thomas R. Van Devender, and

Papers - USGS/Geochange Packrat Middens. The Last 40,000 Years of Biotic Change. Julio L. Betancourt, Thomas R. Van Devender, and Paul S. Martin, Eds. University of Arizona Press, **Catalog Record: Packrat middens : the last 40,000 years of Hathi** Packrat Middens. The Last 40,000 Years of Biotic Change. Julio L. Betancourt, Thomas R. Van Devender, and Paul S. Martin, Eds. University of Arizona Press, **Packrat Middens: The Last 40, 000 Years of Biotic Change: Julio L** last glacial maximum to the present in Betancourt, J.L., Van Devender, T.R. and Martin, P.S., eds., Packrat Middens: The Last 40,000 Years of Biotic Change: **theNAT Packrat - San Diego Natural History Museum** The Last 40,000 Years of Biotic Change Julio L. Betancourt, Thomas R. Van of Radiocarbon Ages from Packrat Middens 1962-1985 n = 1 1 1 3 20,000 ? q. **Late Cretaceous and Cenozoic History of North American Vegetation: - Google Books Result** Land Use History of the Colorado Plateau-Packrat Middens. 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Martin. \$51.95 Paperback Release Date: 1/15/ **Packrat Middens. The Last 40000 Years of Biotic Change - NCBI** In: J. L. Betancourt, T. R. Van Devender, and P. S. Martin (eds.), Packrat Middens, The Last 40,000 Years of Biotic Change, University of Arizona Press, Tucson, **The Quaternary Period in the United States - Google Books Result** Packrat Middens: The Last 40000 Years of Biotic Change [Julio L. Betancourt, Thomas R. Van Devender and Paul S. Martin]. Over the past thirty years, late **Packrat Middens: The Last 40,000 Years of biotic change. Julio L** Van Devender, T.R., and Martin, P.S., eds., Packrat Middens: The Last 40,000 Years of Biotic Change: University of Arizona Press, Tucson, p. **Packrat Middens: The Last 40,000 Years of biotic change. Julio L** Packrat Middens: The Last 40,000 Years of Biotic Change. Julio L. 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