

Supplements to *Journal of Paleontology*  
(ISSN 0022-3360)  
JPALAZ 55(5) 1-000, SEPTEMBER 1981

Volume 55

SEPTEMBER 1981

Supplement to No. 5

Part II of II

# JOURNAL OF PALEONTOLOGY

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THE PALEONTOLOGICAL SOCIETY  
MEMOIR 12

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Late Cenozoic Stages and Molluscan Zones of the  
U.S. Middle Atlantic Coastal Plain

BLAKE W. BLACKWELDER



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**LATE CENOZOIC STAGES AND MOLLUSCAN  
ZONES OF THE U.S. MIDDLE  
ATLANTIC COASTAL PLAIN**

**BLAKE W. BLACKWELDER**

U.S. Geological Survey  
Washington, D.C. 20560

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SEPTEMBER 1981

## DEDICATION

This paper is dedicated to the staff of the Duke University Marine Laboratory. The Marine Laboratory has long served as a geological/biological research and training center for Coastal Plain workers. Founded through the efforts of Dr. A. S. Pearse in 1938 on Pivers Island near Beaufort, North Carolina, this laboratory has provided access to important onshore and offshore geo-biological features. Located close to the Outer Banks, and to various tributaries, sand beaches, dunes, and marshlands, the laboratory is well situated for studying past and present depositional processes. The Cooperative Oceanographic Program initiated at the Marine Lab has given researchers throughout the United States access to the EASTWARD, a research vessel supported by the National Science Foundation. The Marine Laboratory and its staff have afforded many individuals the rich and rewarding opportunities of studying modern and ancient environments. These opportunities have enabled students to gain a depth of understanding and a perspective of the marine environment and of geological processes that would otherwise not have been possible.

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