## THE PALEOCENE-LOWER EOCENE BLACK MINGO GROUP OF THE EAST CENTRAL COASTAL PLAIN OF SOUTH CAROLINA

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#### Abstract

Post-Maustrichtian, pre-Lutetian deposits of the South Carolina Coastal Plain at the surface and in the subsurface are examined and formally assigned to group, formation and member status. Previous terminology established by Sloan (1908) is retained as practical and new terminology is introduced as necessary. The Black Mingo Group is erected to include all the strata observed to occur between the unconformity at the boundary of the Maastrichtian and Dunian stages at the base of the Tertiary section, and the unconformity between Ypresian and Lutetian stages which lies above. The Black Mingo is bounded below by the Lumbee Group of Swift et al. (1969) and above by the Orangeburg Geoup of Siple et at. (1975). Two major regional unconformities occur within the Black Mingo Group. The lower lies between strata assigned to the Danian and Thanetian stages. The upper lies between strata assigned to the Thanetian and Ypresian stages. The Rhems Formation is elevated from Sloan's Rhems Stale and a composite stratotype of the Rhems is established. The Rhems consists of two members, the Browns Ferry and the Perkins Bluff; both are Dunian in age. The Rhems unconformably overtics Maastrichtian strata of the Peedee Formation, and underlies Thanetian strata of the Williamsburg Formation. The Williamsburg Formation is elevated from Sloan's Williamsburg "Pseudo Buhr" and lies uncomformably above the Rhems Formation and below strata of early Eocene age. The Williamsburg Formation is assigned a composite stratotype, and two members, the Lower Bridge and the Chicora, are erected. Unnamed strata of Ypresian age see recognized above the Williamsburg Formation. They are considered in a separate study by others and await formal designation at this time. These are included in the Black Mingo Group on the basis of somewhat similar lithology, and similar nectonic development that is different than that occurring in the overlying Orangeburg Group. The Black Mingo Group, therefore, consists of three lithostratigraphic formational units in the eastern parts of Central South Carolina: the Rhems, the Williamsburg and the unamed Ypresian unit. Within the Rhems and the Williamsburg the Perkins Bluff and the Chicora members designate somewhat coarser-grained shallower, clastic shelf sedimentation; the Browns Ferry and the Lower Bridge more finely clastic shelf sedimentation. Biostratigraphic zonation, principally based on ostracodes is outlined within the lithostratigraphic framework. Important fossils, including pollen, ostracodes, foraminifers, pelecypods and gastropods are discussed where persinent.

#### Introduction

Paleontologic and stratigraphic evidence is presented to support the revision of the Lower Paleogene deposits of the South Carolina Coastal Plain most commonly referred to as the Black Mingo Formation. The Black Mingo Formation of Sloan (1908) and the informally erected Williamsburg and Rhems members of Van Nieuwenhuise (1978) are herein discussed and redefined. The Black Mingo Formation is raised to group status and the Williamsburg and Rhems members are elevated to formational status. The Williamsburg Formation is divided into the Chicora and Lower Bridge members and the Rhems Formation is divided into the Perkins Bluff and the Browns Ferry members. The present study addresses itself to the outcropping units of the Black Mingo Group in and around the type localities of the Black Mingo "Phase," the Rhems "Phase" and the Williamsburg "Pseudo-Buhr" of Sloan (1908). This includes most of Williamsburg and Georgetown counties and portions of Clarendon, Berkeley, and Dorchester counties (Figure 1). To the west of the study area, additional lithologic units outcrop that are correlative to the Black Mingo Group. These units need further study, but data suggest that they could be assigned as additional members to the Williamsburg and Rhems formations. They are not discussed in this report.

Sources of data include lithologic and paleontologic evidence from water wells, test wells, undisplaced power-auger holes and outcrops (Tables I and 2). Electric logs, including spontaneous potential (SP) and short normal resistivity curves (Rsn), were obtained for all water wells and the U.S. Geological Survey's Clubhouse Crossroads Corehole 1. The electric logs were primarily used for correlation of the units into the subsurface and were integrated with data from cuttings, outcrops, cores, and power-auger samples. Additionally, gamma-logs were obtained for a number of the drill holes and were used to assist in the regional correlations.

# **Ostracode Biostratigraphy Of The Yorktow**

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Ostracode Biostratigraphy of the Yorktown Formation Joseph E. Hazel, 1971 Additional title page description Three ostracode assemblage zones are proposed for deposits assigned to the Yorktown Formation The older two zones are considered to be late Miocene in age and the youngest early Pliocene Geological Survey Bulletin ,1986 U.S. Soil Development and Its Relation to the Age of Morphostratigraphic Units in **Geological Survey Bulletin**, 1983 Horry County, South Carolina, 1986 Soil profiles developed in 200 ka and 2 5 to 3 0 Ma barrier and back barrier deposits have been analyzed texturally mineralogically and chemically to identify processes active in weathering and pedogenic alteration of parent material The Fossil Book Patricia Vickers Rich, Thomas Hewitt Rich, Mildred Adams Fenton, Carroll Lane Fenton, 2020-01-15 Expanded edition of definitive guide for professionals and amateurs presents valuable information about finding preserving and studying fossils Over 1 500 drawings and photographs Readable and remarkably comprehensive Chicago Sunday Tribune Introduction to Marine Micropaleontology B.U. Hag, A. Boersma, 1998-03-12 This beautifully illustrated text book with state of the art illustrations is useful not only for an introduction to the subject but also for the application of marine microfossils in paleoceanographic paleoenvironmental and biostratigraphic analyses The recent revival of interest in marine micropaleontology worldwide in the wake of the development of sequence stratigraphic models has led to the decision to reissue the volume in its original but paperback form The ideas expressed in various chapters of this second edition remain as valid today as they were when the book was first issued The text however includes an updated Phanerozoic geologic time which has been considerably modified since the 1980s **Petroleum Abstracts** Ostracoda in the Earth Sciences Patrick De Deckker, Jean-Paul Colin, Jean-Pierre Peypouquet, 1988 Ostracods ,1992 belong to a group of microfossils found in nearly all types of aquatic environments These microcrustaceans characterized by a bivalved calcitic carapace are used to reconstruct ancient environments For example they can help to provide information on palaeoclimates palaeogeography the formation of deep oceans sea level changes etc This book endeavours to bring about a greater understanding of their usefulness in many aspects of geological sciences and provides suggestions for future research It is principally intended for the non specialist and shows many applications of ostracods to help solve geological problems and phenomena Topics reviewed assume no prior knowledge of palaeontology and thus terminology is kept simple There is an exhaustive index and an appendix supplying additional references on significant sources of information on ostracods This book aims to deliver information on ostracods to those people not usually interested in the literature of palaeontology and also to awaken an interest in the Ostracoda by referring to more specialized articles published elsewhere

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