
Revisiting of Stone City Member of Claiborne Group, Stone City Bluff, Texas

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ABSTRACT

The exposed Middle Eocene aged strata of Stone City Bluff have been subjected to stratigraphical analyses for several decades by academia, industry and museums. Biostratigraphic analyses of the Stone City Member (SCM) have focused on different groups of fossil macrofauna, microfauna, and nannofossils. Results of all aforementioned studies are published and presented in form of abstracts, journal papers, field guides, Master's theses, and Ph.D. dissertations. In this study, foraminifera and nannofossil are utilized to update and re-calibrate the biostratigraphic zonation of the SCM. Quantitative analysis of these major groups are combined and illustrated with same data of other encountered fossil groups, i.e., ostracods, pelecypoda, gastropoda and fish remains. Finally, the updated biostratigraphic analysis of the outcrop is matched with the published corresponding sequence stratigraphic units for more detailed paleoenvironmental changes through the time of deposition