

Occurrence of some dinokyst within the subsurface gray clays of Upper Maastrichtian to Danian (K/PG) in the region of Eboinda: implications for palynostratigraphy, paleoenvironment and paleobiogeography

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Upper Maastrichtian to Danian (K/PG) sediments from the Eboinda region (south of Côte d'Ivoire), are here subject of lithographical, palynological (palynostratigraphy, palaeoenvironment, paleogeography) studies. Marine dinocysts assemblage and terrestrial pollens and spores, relatively more abundant, are well preserved in the sections. The marine dinocysts include diverse species of the genera *dinogymnium*, *senegalinium*, *andalusiella* and spiniferites. operculodinium, homotryblium, damassadinium, cerodinium, andalusiella. A Maastrichtian age is suggested for the subsurface gray clays facies in the study area based on LAD of *Dinogymnium acuminatum* and *Cerodinium granulostriatum*. The assembly of the Danian is determined in the sections through the bioevents of dinocysts; the LAD of *Cerodinium diebelli* and the presence of the *Damassadinium californicum* Species. The preponderance of the group of the peridinieae and fibrocysta indicate that the sedimentation of Upper Maastrichtian was done in an inner neritic environment with a large productivity. In the Danian, the predominance of the group of the gonyaulacoids and fibrocysta suggest neritic environment inner to external with low productivity, and with relatively high salinity as that happens in open sea. According to [Lentin and Williams \(1980\)](#), quantitative analyses of dinoflagellates cysts attributed deposits to a paleogeography tropical to subtropical province.

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