

Abstract

Our work is essentially centered on the problem of dredging of the divagant zone of the Congo River forebay (Boma - Malela section). To solve this constraint, we will focus on the analysis of old and recent dredging works in the wandering zone. Indeed, the supply of the ports of Matadi and Boma has been subject to general tonnage losses due to the shallow draught in the Boma - Malela navigation section (divagant zone)[17].

Since the primary difficulty is related to the changing morphology of the wandering zone (Boma - Malela section), we will perform a simulation and analysis of sediment transport with HEC RAS and QGIS software.

Finally, we will also highlight the complications and challenges faced by the Congolaise des Voies Maritimes (CVM ex RVM) with respect to the maintenance of the divagation zone.