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The relationship of sediment texture with coastal environments along the Tabarka -Berkoukech Coast, north western of Tunisia

N. Halouani
(halouaninabila@yahoo.com) Faculty of Sciences,Tunis,Tunisia

Abstract

The variation of the sediment grain size in Tabarka-Bercoukech coast, at the Northwestern part of Tunisia was investigated to estimate which processes control its distribution. 58 sediments samples were collected from dunes, berm, and swash zone. Grain size analysis of the sediment is carried out using a sieving technique. Sampling and statistical analyses of the sediment grain size distributions of dunes, berm and swash sediments at various locations along the coastline show that they varied in their mean grain size as well as values of sorting and skewness. Coarsening and fining trends, along Tabarka-Bercoukech coast, can be accompanied by more positive or negative skewness and better or poorly sorted. The distributions of textural parameters are mainly related to variation in wave energy, current, wind action, beach morphology and sediment sources, along the Tabarka-Bercoukech beach.

Keywords: Grain size distribution – surface sediment - Tabarka-Bercoukech Coast- Statistical parameters