

QUANTITATIVE APPROACH OF SPECIFIC EROSION FOR THE DEVELOPMENT OF AN ABACUS: CASE OF THE BASIN OF THE CHELIFF WADI

Ilhem BOUAICHI, Bénina TOUAIBIA

Abstract:

The phenomenon of hydrous erosion in a basin area appears by the presence of an excessive quantity of sediments in the rivers. From the point of view of management at the scale of the basin, the estimate of specific erosion and the identification of the productive zones of sediments prove to be essential. Taking account of the extent of the phenomenon in Algeria, we were interested in the basin of the Cheliff Wadi where an accentuated space-time variability of the liquid and solid flows is observed. Considering on one hand, space character of a poor density of the stations of gauging and their concentration in the Northern part and on the other hand of the insufficiency even the inexistence of stations of gauging in some under basins, a methodological approach is developed for the development of an abacus of specific erosion connecting this latter to the surface or to precipitations.

Key words: erosion; surface; blade of precipitated water; multivariate analysis; krigage; abacus; Oued Cheliff.