

Contribution to a cartographic approach for erosion specific in the catchment basin of Chélif wadi

Analyses of sediment transport were conducted on the basin of the Upper, Middle and Lower Cheliff (Central Algeria).

The study included firstly, a prior definition of all geomorphological, geological, hydrological and climatic parameters of Chélif sub-watersheds; followed by a detailed quantitative and qualitative analysis of stream discharges and sediment discharged measured at the hydrometric stations. This allowed drawing flow discharge- sediment discharge relationships, hence the estimation of specific erosion on the entire watershed, as well as the ensuing forecasting & regressive model.

At the end, a summary analysis of the specific erosion by using the kriging technique was crowned by a specific erosion cartography in Chélif basin.

Examination of this map highlighted the most sediment productive areas, so where the erosive action is significant.