

Seasonal and Long-term Trends in Sediment Transport of Turkish Streams

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Abstract

In this study seasonal and long-term trends in the sediment supply of major streams in Turkey have been studied by using nonparametric statistical methods. The majority of the streams are nourishing extensive and economically and environmentally important coastal areas comprising lagoons, marshes and beaches. It has been found that the sediment loads to all these coastal areas, with one exception, show statistically significant decreasing trends. Some trends are attributable to decreases in the stream flow as sediment is positively correlated with flow. Flow adjusted concentrations show no trend, suggesting that the decrease in the concentrations is attributable to decreases in flow. Regional patterns in the seasonal trends do not seem to exist.