



RESEARCH PAPERS IN GEOGRAPHY

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**River And Wadi Meandering:
An Applied Geomorphological Study
Of Some Ephemeral Wadis
In The Kingdom Of Saudi Arabia.**

Dr. Abdullah N. Alwelaie

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ABSTRACTS

Meandering is the most common form that rivers and wadis alike appear to take. This phenomenon is often reflected in the curved and sinuous flow of either perennial rivers or ephemeral wadis. Experimentally; if a sand basin of adequate dimensions is set up and the water is permitted to flow over it, meandering will eventually take place. Straight rivers or wadis are regarded as in a state of disequilibrium from which they depart to sinuosity as the norm; not the exception.

Various theories and hypotheses concerning the origin of meandering and its relations with equilibrium are reviewed in the present paper. Selected examples of ephemeral wadis in Saudi Arabia were analyzed and were found to conform with the accepted notion of sinuosity common to most fluid systems. Climatic changes and their wadis, and inverted wadis were also discussed. Several aspects of meandering were found in great need of further research undertakings. This study was supported by various figures, plates, airphotos, and measurements tables.