

The profile form of rock-cut pediments in western Saudi Arabia

Abstract

This paper describes theodolite surveys of 37 pediments in western Saudi Arabia. Pediment profile form was assessed using both regression and profile curvature methods. It is shown that pediment curvature is related to pediment length. From this finding, we develop a model of pediment slope development that is both simple and fits the observable facts. We believe that the data presented here provide convincing evidence for the falsification of several old, but still frequently quoted, hypotheses of pediment development.
