

عنوان مقاله:

Effect of Roughness Geometry on Turbidity Currents Head Characteristics

محل انتشار:

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نویسندگان:

Reza Nasrollahpour - *Islamic Azad University, Shoushtar, Iran*

Mehdi Ghomeshi - *Shahid Chamran University of Ahvaz, Ahvaz, Iran*

خلاصه مقاله:

Turbidity currents are flows driven by density differences caused by suspended fine solid material. The head is the leading edge of turbidity currents. In this paper, the influence of roughness geometry on the head concentration, velocity and height are studied experimentally. Experiments were performed using six rough beds as well as a smooth bed. The roughness elements were in cylindrical and conic shapes. It was found that the head is influenced by height and project area of roughness elements. In a given shape of roughness elements, as the height of roughness elements is increased, the head velocity and concentration declines while the head height increases. In a particular height of roughness elements, the head velocity and concentration decreases and head height rises when the project area of roughness elements increases

کلمات کلیدی:

Turbidity current, Head, Rough bed, Roughness geometry

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