عنوان مقاله:

Longitudinal contribution probability of bursting events over ripples at the bed of open channel

محل انتشار:

سومین کنگره ملی مهندسی عمران (سال: 1386)

تعداد صفحات اصل مقاله: 7

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خلاصه مقاله:

The structure of turbulent flow over ripples in open channel is very important for sediment entrainment and transport and it is not yet completely understood. In this study,the flow structure over ripples was investigated experimentally. An analysis of bursting process was used to recognize the susceptible regions for sediment entrainment and deposition over ripples. It was found that at stoss side of ripples quadrant (II) and quadrant (IV) of bursting event were dominant to quadrant (I) and quadrant (III) and at the lee side it was vice versa. It means that at the stoss side erosion has occurred. At the lee side of ripples quadrant (I) and quadrant (III) were dominant, therefore sedimentation has occurred. The results showed at the stoss side of ripples sediment particles were eroded and at the lee side, particles were deposited.

کلمات کلیدی:

Ripple, Bursting Events, Quadrant, ADV, Wavelength