

عنوان مقاله:

Effect of coast slope on breaking wave attenuation by coastal vegetation

محل انتشار:

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خلاصه مقاله:

Coastal areas are always exposure to natural disasters and catastrophes such as hurricanes, tidal waves and tsunamis. Every year, these phenomena cause significant damages to the life and properties of people. Hence, scientists and engineers are engaged to reduce the harmful effects of the coastal waves. Of the approaches that have been taken into attention in the recent decades is the protection of coastal area by coastal trees known as green belt. Aim of present study is to investigate and analyze the effect of shoreline slope on the breaking of the coastal waves inside of vegetation and reduction of wave force on the coastal area. The experiments were conducted in a laboratory flume with three different slopes. The wave forces absorbed by coastal vegetation were measured directly by a system of load cell mounted below the moveable part of the flume. The results indicate that increase of the coast slope causes the waves to break faster into vegetation area, hence more wave force absorption.

کلمات کلیدی:

Slope, breaking wave, coastal vegetation, wave force, load cell

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