

عنوان مقاله:

Numerical modelling of coastal sedimentation using 2D tidal model, case study: Bushehr Port

محل انتشار:

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خلاصه مقاله:

In the recent years, mathematical models have widely been accepted by many researchers due to their many advantages that are based on physical models. However, for correctly using of these models, recognizing their limitations is inevitable. In this study, sedimentation process is estimated using mathematical modeling in coastal regions of Bushehr Port. In order to calculate numerical modeling, the triangular grids are used for discretizing the governing equations based on two mesh grids namely: general model (large meshes) and local model (fine meshes). After calibration the model, the results of the program for a one year period were analyzed. Boundary conditions were imposed in the local area modeling (Bushehr Port) by three open boundaries whereas for the general area (Persian Gulf) one open boundary in the Strait of Hormuz was imposed. To calibrate the model, threshold shear stress erosion 0.08 N/m^2 and Threshold shear stress deposition 0.04 N/m^2 were considered. In this study, Bottom topography and bed thickness changes were obtained in 25 points of chosen of region due to sedimentation processes as well as bed mass changes.

کلمات کلیدی:

sedimentation, numerical modeling, calibration, erosion, deposition

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