

عنوان مقاله:

Numerical Simulation of Contamination Distribution in Bushehr Bay

محل انتشار:

هفتمین سمپوزیوم بین المللی پیشرفتهای علوم و تکنولوژی (سال: 1391)

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خلاصه مقاله:

Bushehr Bay plays an important role environmental contamination of Persian Gulf region because of different factors such as industrial contaminations or pollution from ship traffic, oil pollution, waste and toxic discharge or domestic wastewater. Therefore, it is needed to recognize and study the way of distribution of these contaminations. To do this, COHERENS model has been used for modeling and studying contamination of Bushehr Bay. For the input of model, data, recorded in marine weather station of Bushehr in a forty-year statistic period and four main tidal components of Bushehr port. After regulating the model for Bushehr Bay and inputting the required data, the model was performed and then the way of contamination distribution predicted in different layers after reaching to a steady state and was validated by field observations. The study results show that contamination distribution mostly occurs under influence of tidal flows Bushehr Bay and they well agree with the result from the field observations. The model result can be used for the contamination distribution way and path of the pollutant flow in Bushehr Bay and also can be used to find out a good strategy to fight more distributions.

کلمات کلیدی:

contamination distribution, Bushehr Bay, COHERENS, Numerical Simulation

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