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Surveying of morphological variations in estuarine Nyband River

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Rivers estuary in aspect of ecological and morphological is very sensitive in coastal zones. This area can affect from human activities and these activities have direct effective on natural state of these area. There for, overall aim of this work is steady on development of this coastal area and thus, it is investigated the morphological and sedimentation mechanism in estuarine area. For this case study, area is limited (27°11'NL ; 56°19'EL), begin from Genu mountains in southern parts of Iran and pass from mid of Bandar Abbas city and in final ends to north of Persian Gulf. There were some physical variations in this estuarine area of Nyband River due to human activities. These variations include: fixing the banks, Jetty break water in near of estuary and recently sealing the bed bottom of river and building of bridge. A numerical program was used for analysis this hydrodynamic and sediment condition. This result compares with field data for evaluation of the numerical analysis. Also, the aero photographical document in past decade was prepared for surveying morphological variations. For this purpose, the GIS (ARCVIEW) was used and finally, the effect of the human activities, such as building of new structure, on morphology of river was investigated.