



Monitoring and ICZM Studies for Coastal line And Coastal Land forms Change in Persian Gulf with Remote Sensing and Geographic information system Techniques, Case Study:Asaluyeh Coastal Region

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Recently develops of civil activities in coastal areas in Iran have destroyed important parts of geomorphologic landforms in beaches and have created considerable changes in coastal line. Northern coast of Persian Gulf has many oil and gas reservoirs and relation with free oceans. So, it has intense geomorphologic changes more than other areas. In this coastal part, Asaluyeh area has an important role because of development of oil and gas installations. In this research, we have visual compared 1990,s TM satellite image and 2000, 2002, 2004 and 2006,s IRS satellite image and field observations from sedimentation and erosion in Persian golf's coastal line.. In Addition, we use High and Low Position technique and Change Detection in Erdass and ArcGIS Softwares for detection of changes in coastal line and landforms. On the basis of these results, the rate of sedimentation is about 50%. Sedimentation is often as sedimentary noses behind of coastal buildings with progressive part in water for example jetties and wave breaks. With detail investigations, we can see that 85% of geomorphologic landforms in Asaluyeh area have changed in recent ten years, because of creation of industrial installations in coastal lines. There are only some changeless parts of estuaries and marches in eastern part because of trees and environmental protected areas (neighbor with Nayband national Park). Some sedimentary landforms such as deltas and flood plains have destroyed and depositional tails and marches have created in Asaluyeh coastal line. In this research remote sensing has been important tool for Database Produced, and GIS has been important role for spatial analysis. Low syudies in Coastal zone management in Iran is one of big problem for Sustainable development . coastal line and coastal landforms are changing for settlement of industry and Environmental balance in coastal area is changing .

Key word: Geomorphological Change, Change Detection, Heigh&Low Position, Assaluyeh, Coastal line Changes, Iran Coastal