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Sea level changes impact on saltwater intrusion into the Gauthami-Godavari River Estuary

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The impacts of sea level changes on coastal areas may cover many aspects including impacts on water resources, agricultural and health resources in the coastal areas. Usually impacts are exacerbated by other phenomena such as subsidence, presence of ground water aquifers and coastal agriculture. We shall consider the saltwater intrusion impacts in some detail. Saltwater intrusion is a direct impact on groundwater resources, soil salinity, agricultural productivity and quality in the coastal zone. The Godavari delta and its deterioration due to saltwater intrusion is an example. Impacts of saltwater intrusion include increase of soil salinity, deterioration of land productivity and socioeconomic and health implications. It may lead to group migration of farmers looking for jobs somewhere else.