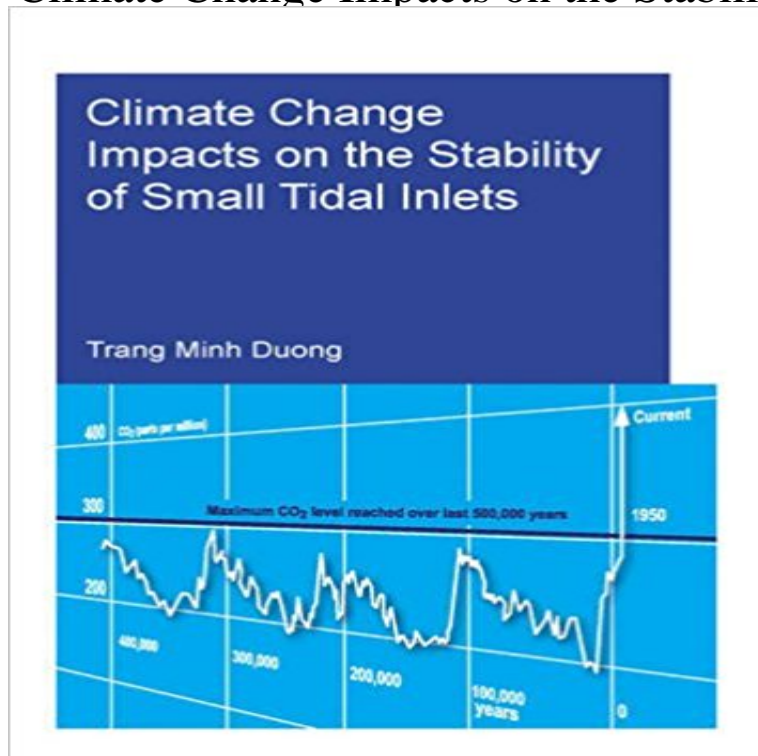


Climate Change Impacts on the Stability of Small Tidal Inlets



This work explores coastal zones in the vicinity of tidal inlets, which are commonly utilized for navigation, sand mining, waterfront developments and fishing and recreation, are under particularly high population pressure and will only be exacerbated by foreshadowed climate change (CC). Although few recent studies have investigated CC impacts on very large tidal inlet systems, the nature and magnitude of CC impacts on the more commonly found small tidal inlets (STIs) remains practically un-investigated to date. The combination of pre-dominant occurrence in developing countries, socio-economic relevance and low community resilience, general lack of data, and high sensitivity to seasonal forcing makes STIs potentially very vulnerable to CC impacts. This study was undertaken to develop methods and tools that can provide insights on potential CC impacts on STIs, and to demonstrate their application to assess these CC impacts. Two process based snap-shot modeling approaches for data poor and data rich environments are used to assess CC impacts and an innovative reduced complexity model is developed to obtain rapid predictions of CC impacts on the STIs stability. Results show that STIs are unlikely to change their types, but that their stability level is likely to change under CC impacts. The main driver for the change is the future variations in wave directions, not SLR as is commonly thought.

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SMALL. TIDAL INLETS. DISSERTATION. Submitted in fulfilment of the requirements of the Board for **Climate Change Impacts on the Stability of Small Tidal Inlets - Target A** QUALITATIVE ASSESSMENT OF CLIMATE CHANGE IMPACTS ON THE STABILITY OF SMALL TIDAL INLETS VIA SCHEMATISED NUMERICAL **Assessing climate change impacts on the stability of small tidal inlets** Assessing climate change impacts on the stability of small tidal inlet systems: Why and how? 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