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Climate change, rising sea levels and the risks of saline intrusion into groundwater in African islands

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Abstract

Rising ocean levels are a credible threat to the many islands based in the African continent. This leads to the reduction in arable land, recurrent flooding, and extreme weather phenomena which require better mitigation. Beyond these risks, the intrusion of salt water into groundwater resources is a major risk which raises fears for both the economies and the stability of regions. This research proposes, based on common and differential experiences, how to mitigate the risks announced by innovative local approaches.

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