

# COASTAL EROSION PREVENTION IN GO CONG BEACH BY T-HEAD SHAPE GROYNES

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## Summary

Simulation of the coastal erosion protection using T-head shape groynes based on the combination of theoretical hydrodynamics flow problems, wave problems and sediment transport problems. Our results showed that typical T-shape groyne (250 m high, 400 m wide, 1.5 m thickness) placed at an average distance of 500 m along the shore are effective in reducing the coastal erosion, while facilitating the accretion inside the groyne. The main reason for this type of shore protection is the ability to reduce longshore currents and wave energy when entering the shore. Indeed, thanks to the T-shaped structures considered as spillways that restrict the flow of the shoreline and prevent the wave at the T-wing entering the shore. Flows tend to be pushed away from the shoreline and flow along the crests of T-groyne.

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