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Comprehensive Monitoring of Salt Water Intrusion and Submarine Groundwater Discharge in Coastal Ecosystems

Coastal ecosystems are among the most productive, yet threatened, ecosystems. The impact of their degradation often extends a long distance from the coast, covering most of the mega-cities and densely populated areas of the world.
The quantity and quality of water in these areas are intimately related to the dynamic coupling between salt water intrusion and SGD.
Water quality in these ecosystems should be assessed in a "total resource" context, integrating technological developments in multiple disciplines (geophysics, biogeochemistry and hydrology).
Use of the best available scientific data from comprehensive monitoring will improve management and policy responses of coastal ecosystem, which is vital to the livelihood and economic income of a large number of people now living in coastal zones.

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