



Ministry of Economic Affairs,  
Agriculture and Innovation

# MPAs and Climate Change

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# Impacts of climate change



- increases in air and sea surface temperatures,
- increase in sea level and ocean acidity,
- increase in frequency and intensity of storms and hurricanes,
- general aridification
- greater overall unpredictability in weather.

# Principal effects

- further losses to the coral reef systems,
- erosion of coasts and beaches,
- salinification of groundwater sources,
- losses in hilltop vegetation and flora,
- soil humus losses and erosion,
- increases in various disease vectors,
- changes in ocean currents,
- Changes in fish recruitment and migration
- Stronger foothold for invasive species.



# Erosion of coasts and beaches



# Invasive species

A close-up photograph of a dense patch of green, succulent-like plants growing on a sandy beach. The plants have thick, fleshy leaves and are arranged in a somewhat regular pattern. The sand is light-colored and visible between the plants. The overall scene is brightly lit, suggesting a sunny day.







# Inter-American Sea Turtle Convention (IAC)

- include key sea turtle habitats in plans and programs for adaptation to climate change;
- corrective measures for adaptation to climate change within management plans, regulatory plans, and protection and conservation programs for sea turtles and their habitat;
- Promote research and monitoring on sea turtles and their habitat, and improve the scientific bases to implement adaptation measures;
- exchange of technology and technical capacity in addition to collaboration for adaptation of marine and coastal habitats
- identify, interpret, create and execute additional mitigation measures for non-climatic threats to improve resilience of sea turtle populations and their habitats



# Coral reefs







# Nature Policy Plan **Caribbean Netherlands**

- Develop and implement Biodiversity Monitoring Strategy
- Develop guidelines to strengthen the resilience of ecosystems to withstand climate change
- Control and prevent introduction of invasive alien species



Thank you

