

USA strategies implemented by NOAA (relates to USA reefs, especially Hawaii)

- CRTF (Coral Reef Task Force)
  - map/monitor US coral reefs
  - research causes of reef degradation
  - promote conservation

This led to a CONSERVATION ACT and the Coral Reef CONSERVATION PROGRAM by NOAA and private organisations to:-

- use high resolution satellite imagery to detect algal blooms
- monitor sea surface temperatures
- set up a Coral Reef early warning system.

Rapid decline of these ancient and complex ecosystems have significant social, economic and environmental consequences around the world



### MARINE PROTECTION AREAS (MPAs)

- gives legal protection to coral reefs
- clearly defined areas

- fisheries management; catch limits, limits on certain practices, seasonal bans, NO TAKE zones, mooring bans.
- restrictions to oil/gas mining, tourism
- ship transit banned or regulated.
- ecological restoration, habitat restoration, reef repair, promotion of biodiversity

### MANAGING LOCAL STRESSORS

- manage recreational use
- manage invasion species
- control coral predators
- reduce land based negative aspects:-
  - reduce sediment input
  - minimise loss of mangrove
  - reduce sewage from urban areas
  - reduce chemicals input from agriculture
- Community engagement in reef management