Island States are at the frontline of climate change

**INDIAN OCEAN COMMISSION is committed**

**Climate Change Impacts**
- ELEVATION OF SEA LEVEL
- COASTAL EROSION
- SHELL-BORNE ORGANISMS SEVERELY AFFECTED

**RISE IN TEMPERATURE** from 2.8°C to 3.8°C
**RISE IN SEA LEVEL** up to 56 cm
**INDIAN OCEAN ISLANDS MAY DISAPPEAR**

**Madagascar MANGROVES** represent 25% of **African mangroves**

**ACTIONS**

IOC- SmartFish promotes the use of fishing techniques less harmful for mangrove crab

- LEGISLATION
- POST CAPTURE
- GOOD FISHING METHOD USING BALANCE
- IMPROVED STORAGE

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**Climate Change Impacts**

on fish production and ecosystems

Loss of sharks in our oceans can lead to unpredictable consequences; collapse of important fisheries, corals and marine habitats

The depletion of sharks threatens the ability of marine eco-systems as sharks are on top of the food chain

100 millions sharks are killed every year

**Actions**

Protection of sharks is crucial as they play a vital role in the ecosystem

- **STOP SHARK FINNING FOREVER!**
- **STOP OVERFISHING!**
- **RESPONSIBLE AND BETTER CONSUMPTION**
  Use of the whole shark
- **STOP BLAST FISHING AND CORAL REEFS DESTRUCTION!**

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Climate Change Impacts on fish production and ecosystems

- Threat to the ecosystem reef
- Disappearance of important species for dependent coastal fishing communities
- Overfishing

INDIAN OCEAN ISLANDS MAY DISAPPEAR by 2090

RISE IN TEMPERATURE from 2.8°C to 3.8°C
RISE IN SEA LEVEL up to 56 cm

Actions

IOC-SmartFish promotes sensible management of coastal fisheries such as the octopus with a view to reducing the impact of direct human pressure and thus increase the resilience of these species to climate change

Octopus management

- Fast growing species
- Total life time: 18 months

2-month octopus closure ensures an increase in production

Results of 2-month octopus closure per year in Rodrigues

- 2007: 254.1 tonnes
- 2008: 281.3 tonnes
- 2009: 278.4 tonnes
- 2010: 268.7 tonnes
- 2011: 382.7 tonnes
- 2012: 561.1 tonnes
- 2013: 765.7 tonnes

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We must fight to counter human factors that directly impact on coral reefs whose ecological and economic role is extremely important

**OCEAN ACIDIFICATION:**
World’s oceans are becoming acidic at a faster rate threatening disaster for marine life

**BREAKING THE CYCLE OF CORAL CALCIFICATION**

**ELEVATION OF SEA TEMPERATURE**

**Climate Change Impacts on fish production and ecosystems**

**IN 2090**
- **RISE IN TEMPERATURE** from 2.8°C to 3.8°C
- **RISE IN SEA LEVEL** up to 56 cm
- **INDIAN OCEAN ISLANDS MAY DISAPPEAR**

**OCeAN Acidification**
World’s oceans are becoming acidic at a faster rate threatening disaster for marine life

**Actions**

**IOC-SmartFish**
Fight against dynamite fishing in Tanzania

3,000 kg explosives confiscated
10 cases registered for prosecution

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