

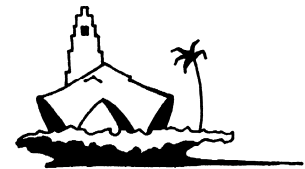
Chumbe Island

Tanzania / Zanzibar

Chumbe Island Coral Park Ltd (CHICOP)

NOV 2012 | Sibylle Riedmiller

2012 GLOBAL MPA
ENFORCEMENT
CONFERENCE



CHUMBE ISLAND
CORAL PARK
Zanzibar Tanzania

Tanzanian coral reefs threatened by rampant dynamite fishing



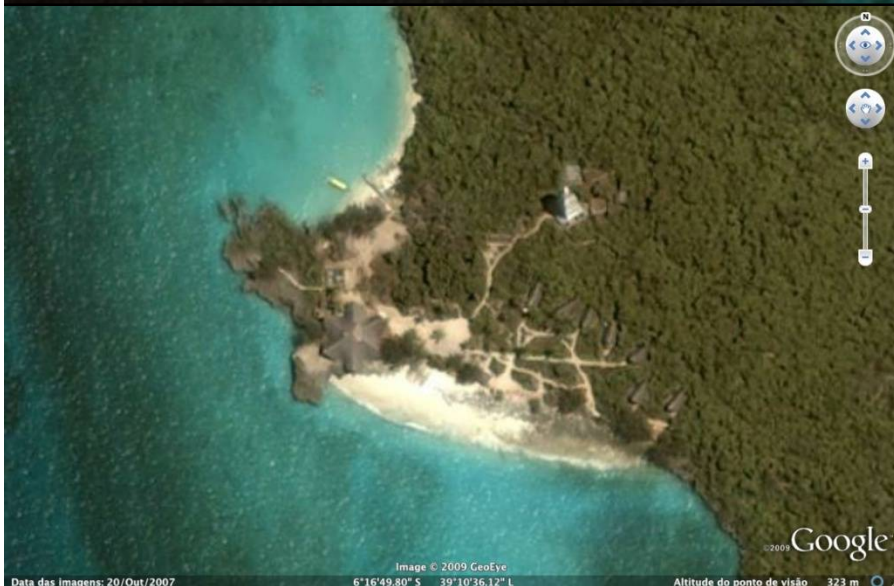
Chumbe Island

It all began in 1991...



Consultancy Environmental Education in Z'bar 1991:

- **Corals don't figure in school curricula**
- **Low public awareness on coral reefs**
- **No Kiswahili word for 'corals'**
- **No MPAs in Tanzania**
- **No marine conservation policy, institutions, legis-lation...**



Chumbe Reef Sanctuary (CRS)



Protects biodiversity:

- 90% of East Africa's hard coral species
- 424 species of fish
- Hawksbill turtle (*Eretmochelys imbricata*)
- Green turtle (*Chelonia mydas*)
- Coconut crab (*Birgus latro*)
- Roseate tern (*Sterna dougalli*)

- ***Size:*** 0.3 km²
- ***Location:***
Tanzania, Zanzibar, Chumbe Island, Western fringing reef
- ***Established by private company*** CHICOP Ltd. 1992
- ***Gazetted by GoZ*** in 1994
- ***Recognized by WCMC*** in 1995 as Class II PA under IUCN's WDPA listings
- ***Recognized showcase of sustainable MPA*** by UN Secretary General's Report to General Assembly for Rio+20

OPERATIONAL STRUCTURE

Description of Operations:

- **Privately managed** by Chumbe Island Coral Park Ltd
- **Rangers (8) former fishers** employed & trained by CHICOP, also work as Tourist guides

Operating budget & percentage for enforcement:

- Ca 500.000 US\$ per year, ca 20% for enforcement
- CRS **entirely funded by revenue of 7 Eco-bungalows** from 2000



Operations based on:

- Reef Management Agreement with GoZ
- Management Plans 1995-2016

CHALLENGES for Chumbe Reef Sanctuary



➤ *Main threats:*

Some illegal fishing at night, high fishing pressure outside of CRS, boats 'taking short-cuts' through CRS pulling fishing lines

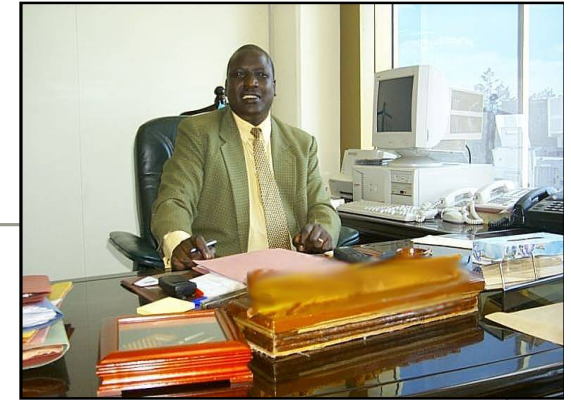
➤ *Biggest challenges:*

No big challenges in CRS. Poor law enforcement in other MPAs in Tanzania, entrance fees not used for enforcement.

➤ *More enforcement needs?*

None at CRS. Better governance needed in other MPAs.

ENFORCEMENT



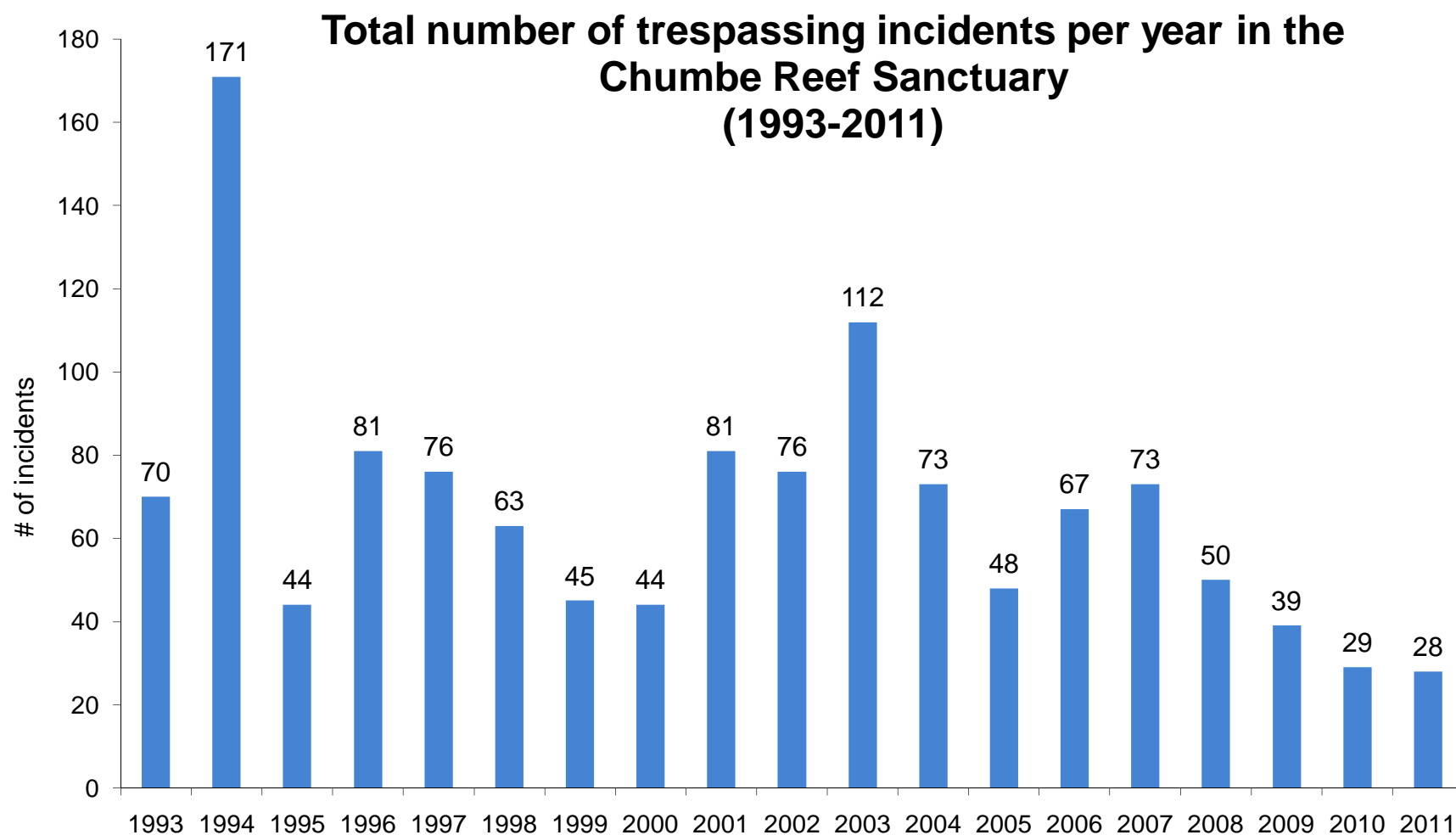
Legal Framework:

- 1992 - Investment certificate for **Private MPA** issued by GoZ
- 1994 - Western fringing reef **gazetted as No-Take-Area** by Department of Fisheries
- 1994 - **Reef Management Agreement** between GoZ and CHICOP under Fisheries Act, 1988

Surveillance & Detection:

- Demarcation & mooring buoys installed
- Rangers patrol by boat, on foot, from lighthouse
- Rangers **help & rescue fishers in distress** (>100 cases)
- Daily Ranger reports processed & sent to Fisheries Dept.
- **Data available from 1993**

ENFORCEMENT



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Interception & Arrest:

- All fishers are approached by Rangers
- **Rangers unarmed, use Education & Awareness**
- Back-up by Island-based police
- Fishing gear confiscated, poachers taken to Zanzibar Police
- Close cooperation with Dept. of Fisheries

Prosecution & Sanctions:

- 2005– 2007: 3 cases of fishers arrested by Rangers with sea cucumbers, lobsters, sent to Court, fined 500-1000 US\$, fishing gear taken, boat released. Never came back.
- 2011: Police Sergeant was caught with spear gun. Photo taken, gear & fish confiscated by rangers. CHICOP gave him strong warning letter, he never came back.
- 2012: Rangers caught fisher from influential family, who bribed him out of police custody.



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Technology:

- Only basic equipment needed: demarcation buoys with solar lights (easily lost), boats, cameras, hand held VHF radios, torches for night patrol.

More important: Education & Awareness:

- Awareness tours for GoZ officials
- Workshops for fishers - **"Enforcement through education on spill-over effect"**
- School **Environmental Education** Programs (up to 2012 ca. 5.500 kids, 900 teachers)
- Advisory Committee with GoZ officials, village leaders, academia
- Outreach work in local communities.



Benefits of Marine Parks over Terrestrial parks...



Terrestrial parks:

- Often **exclude** local people,
- '**Spill-over**' not beneficial, causes **human-wildlife conflicts**, e.g. danger to life & damage to crops & livestock;
- '**Benefit sharing**' not automatic & often controversial:
- **Compensation** of local people for lost resource use from tourism revenues: **source of conflicts**

Benefits of Marine Parks over Terrestrial parks...



@ M.Wadsleigh

'No-take' Marine parks

- Also **exclude** local people
- But provide **fish nurseries** & spawning grounds
- **Re-stock** neighbouring areas,
- '**Spill-over effect**' increases catches there after 3-5 years
- Fishers **benefit directly!**
- **No human-wildlife conflicts!**
- Good potential for **alliance between fishers and tourism investors**

SUMMARY



Final Thoughts:

- **Financially sustainable & effective MPA**, where ecotourism fully funds Management, Conservation and Education.
- Only challenge is lack of **long-term security of tenure**.

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