



# History of tuna fishing in Pakistan

- Tuna fishing is one of Pakistan's oldest fisheries
- Most of the larger boats (<30 m) were engaged in tuna fishing using gillnets
- Fishermen used to undertake long fishing trips to catch large pelagics in Omani (Marisa) and Somali waters
- Tuna used to be salted dried for export to Sri Lanka



# **Current tuna fishing in Pakistan**

- Dominated catch of tuna include yellow fin, long tail and skipjack
- High incidence of bycatch
- Undesirable fishing practice gillnets (locally called Boola, gujjo and Kutro)



# Fishing gear

#### **Gillnet Fishing**

#### Surface/drift gillnet

- Mesh size (13-17 cm stretched)
- Length
- 5-10 km (Coastal)
- 7-20 km (High seas)
- Breadth 14 m
- Net hauler



# **Major species**

#### Coastal tuna

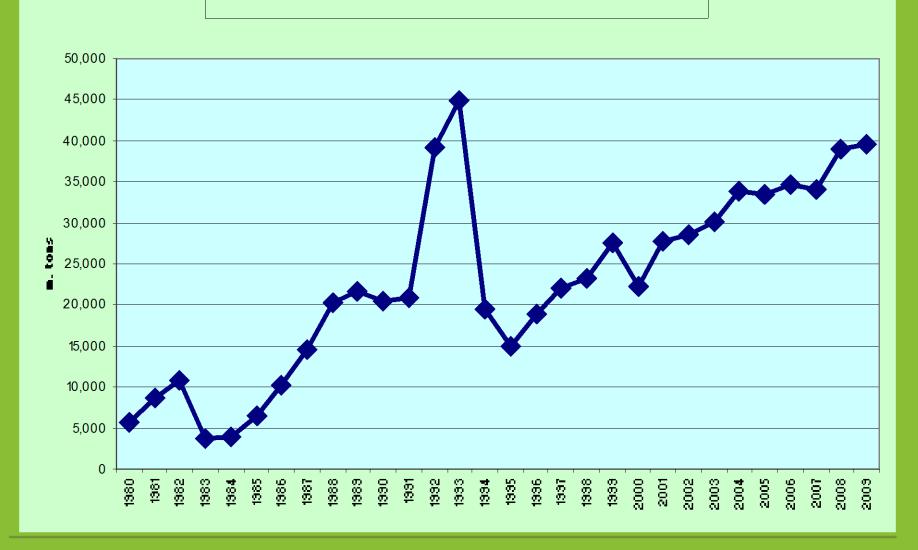
- Frigate Tuna
- Bullet Tuna
- Kawakawa
- Longtail Tuna
- Stripped Bonitos

#### Oceanic tuna

- Skipjack Tuna
- Yellowfin Tuna
- Bigeye Tuna

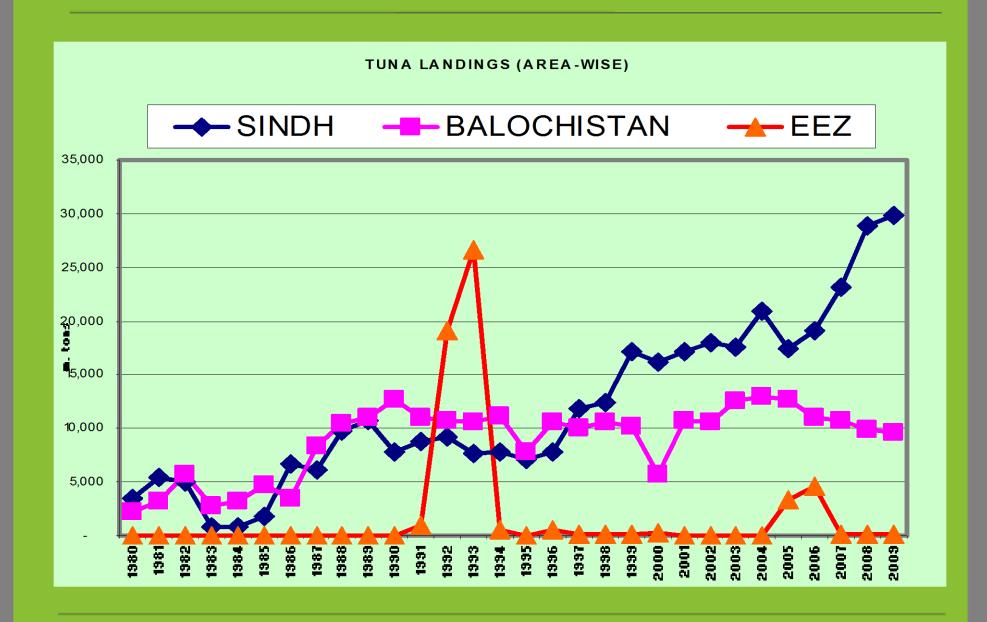


### **TUNA LANDINGS IN PAKISTAN**





#### An overview of shark fishing in Pakistan: Interaction with tuna fisheries





# **Bycatch species**

- Juvenile tunas
- Dolphins and whales
- Turtles
- Seabirds
- Sharks, including whale sharks



# **Shark diversity in Pakistan**

#### **ORDERS:**

- SQUALIFORMES (Dogfish sharks)
- PRISTIOPHORIFORMES (Saw sharks)
- HETERODONTIFORMES (Bullhead sharks)
- ORECTOLOBIFORMES (Carpet Sharks)
- LAMNIFORMES (Mackerel Sharks)
- CARCHARHINIFORMES (Ground Sharks)
- PRISTIFORMES (Sawfishes)

Species of Elasmobranch = 134 (Sharks: 69 species)



#### **Order Lamniformes**

Family Alopiidae (Thresher Sharks)
Family Laminidae (Mackerel Sharks, Makos)
One of the important tuna bycatch groups



Mako shark



#### **Order Carcharhiniformes**

Family Scyliorhinidae (Cat Sharks)
Family Triakidae (Houndsharks)
Family Hemigaleidae (Weasel sharks)
Family Hemigaleidae (Weasel sharks)
Family Sphyrnidae (Hammerhead sharks)



Milk shark



#### **Shark overview**

Sharks are caught as part of by-catch in tuna gillnet operations

A number of species inhabit pelagic ecosystem

It is estimated that 55% of the total shark landings originate from tuna gillnet boats

All sharks land at the harbour with their fins attached



#### **Shark overview**

Catch of sharks is seasonal

Shark handline, longline fishing gillnet –bottom set gill-net

The dominant landings of sharks include Blacktip sharks, Silvertip, Whitetip and Mako sharks

Nothing goes to waste











# **Shark landings at KFH (2011)**





## **Shark chunks for local market**



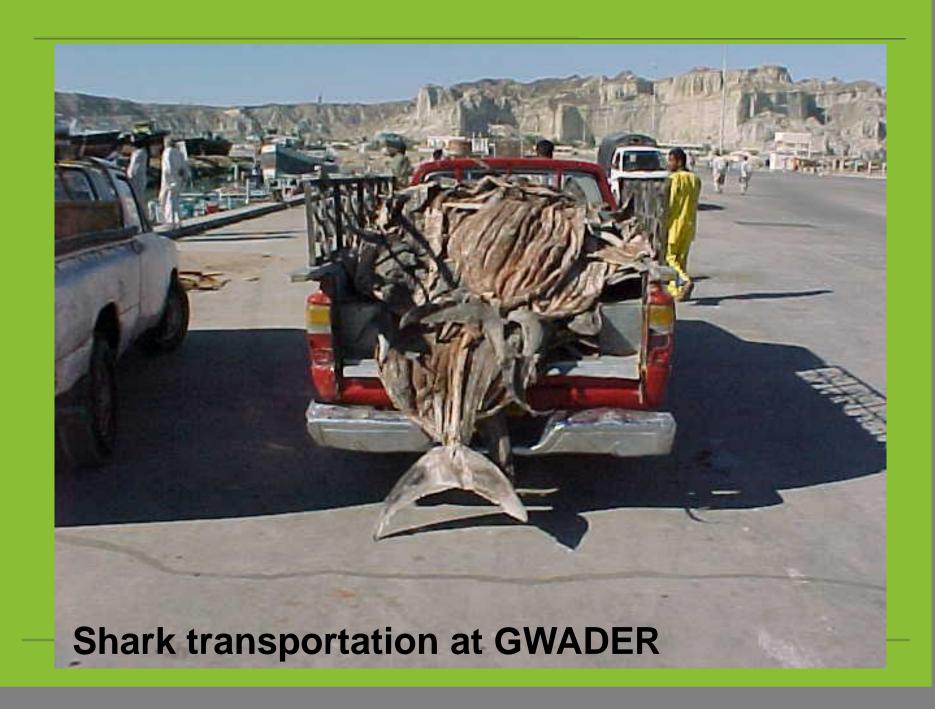


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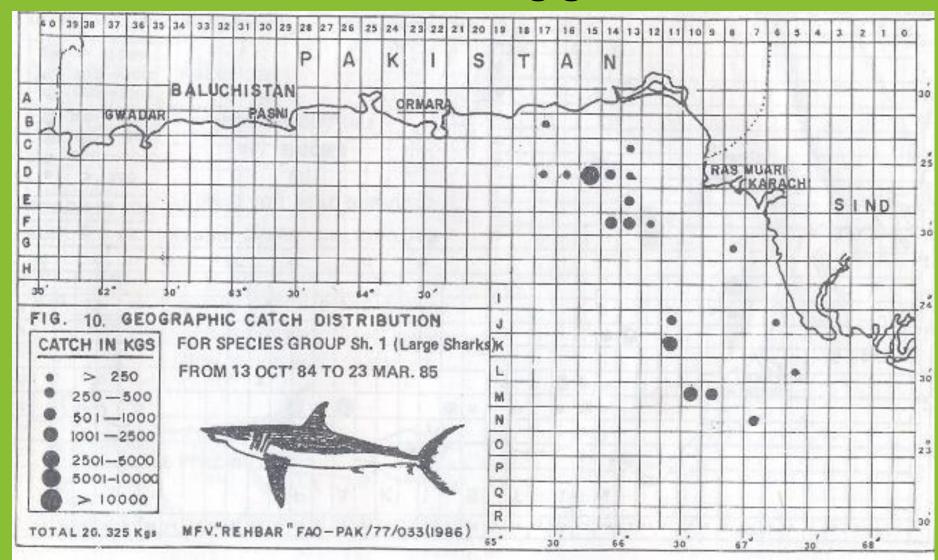






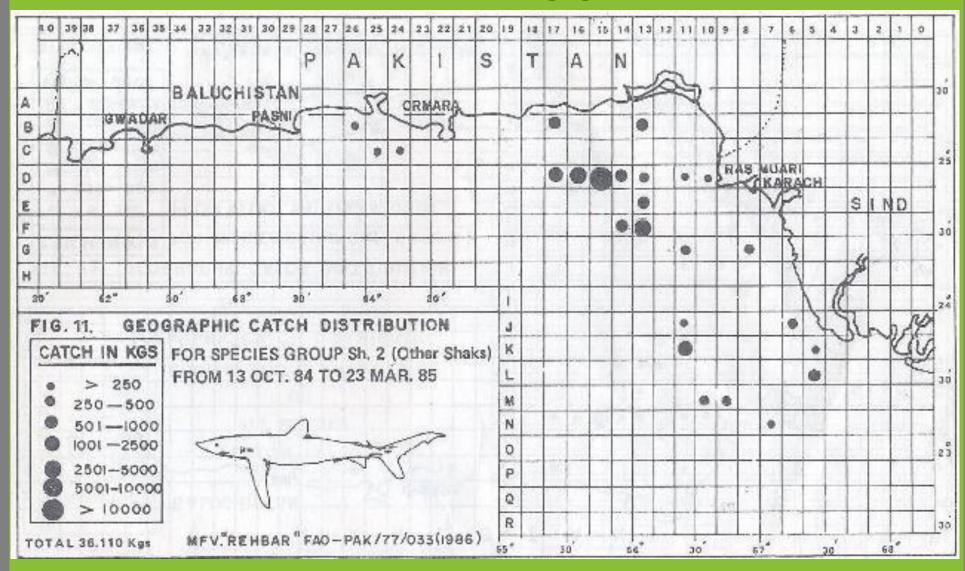


# **Shark fishing grounds**



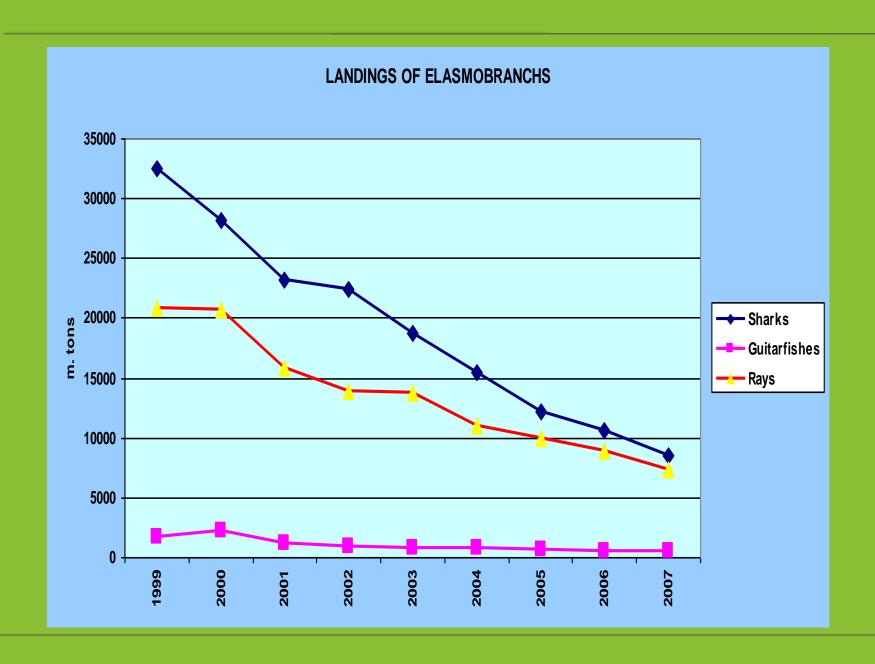


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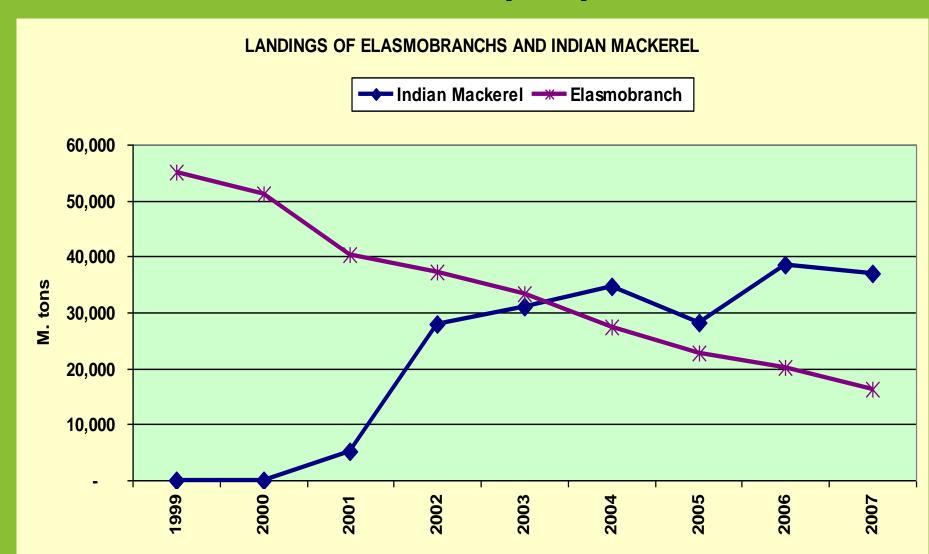


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# Removal of apex predators





# Fisheries legislation

The exclusive fishery zone (regulation of fishing) act, 1975

Sindh fisheries ordinance, 1980

#### Baluchistan sea fisheries ordinance, 1971

 No protection for species specific sharks, however WWF is encouraging the government to their improve shark conservation and management.



# Thank you

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