# **Protecting Sharks**

**Reducing shark bycatch** in purse seine tuna fisheries

**The shark bycatch-to-tuna catch ratio** in purse seine fisheries is quite small — less than 0.5% in weight.

**But given the size** of the global tuna purse seine catch, reducing its impact on shark species is essential.

One study estimates 480,000-960,000 silky sharks could have been entangled in FADs

every year in the Western Indian Ocean during 2010-2012\*

## **ISSF research** has identified 4 approaches:

# **Before catch**

L. Reduce the number of sets on FADs

a.) Shift some effort

#### to free school sets

Sharks are more commonly found in natural log and FAD sets than they are on free swimming schools. For a given amount of fishing effort, shift to more free swimming school sets to reduce overall catch of sharks.

## b.) Avoid setting on small schools of fish

Avoiding sets on schools of tuna less than 10 tons would reduce the amount of bycatch of silky sharks by 21-41% depending on the region.





Can reduce the catch of silky sharks, for example, by **21-41%** 

small school





### **2.** Implement nonentangling FADs

Traditional FADs with open netting and large mesh hanging structures entangle sharks. To avoid capturing sharks in the first place, use non-entangling FADs, as guided by ISSF recommendations and required by three tuna RFMOs



# After catch

**3.** Release from net Fishing sharks out of purse seine net with hand line can save at least 20% of sharks encircled

Releasing sharks from purse seine nets while still free swimming rather than on deck can improve their survival. Fishing sharks from the net with handlines and baited hooks is a promising technique.





# **To learn more** about bycatch in tuna fisheries, visit <u>www.iss-foundation.org</u>



http://iss-foundation.org/knowledge-tools/reports/technical-reports/download-info/issf-technical-report-2016-13-compendium-of-issf-at-sea-bycatch-mitigation-research-activities-as-of-july-2016/\_

